



THE XVTH INTERNATIONAL CONGRESS ON RHEOLOGY

The Society of Rheology 80th Annual Meeting

PROGRAM

August 3 – 8, 2008 Monterey, California
Monterey Conference Center

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Session Schedule

Plenary Lectures

PL1. From molecules to mechanics: Nuclear magnetic resonance and rheological insight <i>Paul T. Callaghan</i> (MacDiarmid Inst. for Advanced Materials and Nanotechnology, New Zealand)	Monday	8:20	Serra I
PL2. Non-equilibrium mechanics of active gels and living cells <i>Fred MacKintosh</i> (Vrije Universiteit, The Netherlands)	Friday	12:00	Serra I

Keynote Lectures

KL1. Dynamics of entangled polymers <i>Michael Rubinstein</i> (University of North Carolina, USA)	Monday	1:15	Steinbeck
KL2. Multiphase flows in microfluidic devices: Drops, vesicles, and cells <i>Howard A. Stone</i> (Harvard University, USA)	Monday	1:15	Serra I
KL3. Nonlinear elasticity of elastomers and gels as revealed by multiaxial deformations <i>Kenji Urayama</i> (Kyoto University, Japan)	Tuesday	8:30	Serra I
KL4. Biopolymer, protein and protein-biopolymer interfaces and gels: Structure-property-function relationships and relevance to tissue generation <i>Justin J. Cooper-White</i> (The University of Queensland, Australia)	Tuesday	8:30	Steinbeck
KL5. Independent control over the mechanical and electrical properties of solid polymer electrolytes for lithium batteries <i>Nitash P. Balsara</i> (University of California – Berkeley, USA)	Tuesday	1:15	De Anza I-II
KL6. Modeling liquid crystal materials and processes in biological systems <i>Alejandro D. Rey</i> (McGill University, Canada)	Tuesday	1:15	Steinbeck
KL7. Tailoring the rheology of soft particle dispersions <i>Michel Cloitre</i> (ESPCI, France)	Wednesday	8:30	Steinbeck
KL8. Could we raise glasses? – <i>Bingham Lecture</i> <i>Hans Christian Öttinger</i> (ETH Zurich, Switzerland)	Wednesday	8:30	Serra I
KL9. Elastic turbulence: A random flow without inertia <i>Victor Steinberg</i> (Weizmann Institute of Science, Israel)	Thursday	8:30	Serra I
KL10. Residual stresses and viscoelastic deformation of injection molded parts <i>Jae R. Youn</i> (Seoul National University, Korea)	Thursday	8:30	Steinbeck
KL11. Recent progress in shear banding in complex fluids <i>Peter D. Olmsted</i> (University of Leeds, UK)	Thursday	1:15	Steinbeck
KL12. Anomalous rheology of polymer-nanoparticle suspensions <i>Michael E. Mackay</i> (Michigan State University, USA)	Thursday	1:15	Serra I
KL13. A new look at stress relaxation in melts of unlinked rings <i>Scott T. Milner</i> (Penn State University, USA)	Friday	8:30	Serra I
KL14. A geophysical perspective of grain-fluid flows <i>Richard M. Iverson</i> (U.S. Geological Survey, USA)	Friday	8:30	Steinbeck

Materials Processing

MP-1. Extension Dominated Flows	Monday	9:45 – 11:45	Ferrante I-III
MP-2. Coating and IT Applications	Monday	2:30 – 5:30	Ferrante I-III
MP-3. Injection Molding	Tuesday	9:45 – 11:45	Ferrante I-III
MP-4. Extrusion	Tuesday	2:30 – 5:30	Ferrante I-III
MP-5. Nanocomposites	Tuesday	2:30 – 5:30	Colton I-III
MP-6. Other Processes	Wednesday	9:45 – 11:45	Ferrante I-III
MP-7. Particulates	Thursday	9:45 – 11:45	Colton I-III
MP-8. Nanocomposites and Blends	Thursday	2:30 – 5:30	Colton I-III
MP-9. Stability and Crystallization	Friday	9:45 – 11:45	Colton I-III

Complex Flows

CF-1. Flow Instabilities I	Monday	9:45 – 11:45	Steinbeck
CF-2. Computational and Multiscale Modeling I	Monday	9:45 – 11:45	Colton I-III
CF-3. Flow Instabilities II	Monday	2:30 – 5:30	Steinbeck
CF-4. Shear Banding I	Tuesday	9:45 – 11:45	Steinbeck
CF-5. Shear Banding II	Tuesday	2:30 – 5:30	Steinbeck
CF-6. Viscoelastic Turbulence	Tuesday	2:30 – 5:30	San Carlos I
CF-7. Computational and Multiscale Modeling 2	Wednesday	9:45 – 11:45	Steinbeck
CF-8. Computational and Multiscale Modeling 3	Thursday	9:45 – 11:45	Steinbeck
CF-9. Hydrodynamics in Confining Media	Thursday	2:30 – 5:30	Steinbeck
CF-10. Computational and Multiscale Modeling 4	Friday	9:45 – 11:45	Steinbeck

Homogeneous Polymeric Systems

HP-1. Unentangled Polymers	Monday	9:45 – 11:45	San Carlos III
HP-2. Polyelectrolytes and Ionomers	Monday	9:45 – 11:45	San Carlos I
HP-3. Entangled Polymers I	Monday	2:30 – 5:30	San Carlos III
HP-4. Applied and Industrial Rheology	Monday	2:30 – 5:30	San Carlos I
HP-5. Entangled Polymers I	Tuesday	9:45 – 11:45	San Carlos III
HP-6. Cross-linked Polymers and Gels	Tuesday	9:45 – 11:45	San Carlos I
HP-7. Entangled Polymers I	Tuesday	2:30 – 5:30	San Carlos III
HP-8. Polymer Solutions	Wednesday	9:45 – 11:45	San Carlos III
HP-9. Entangled Polymers II	Thursday	9:45 – 11:45	San Carlos III
HP-10. Entangled Polymers II	Thursday	2:30 – 5:30	San Carlos III
HP-11. Entangled Polymers I	Friday	9:45 – 11:45	San Carlos III

Heterogeneous and Self-Assembling Polymeric Systems

HS-1. Liquid Crystalline Polymers & FIC	Monday	9:45 – 11:45	San Carlos IV
HS-2. FIC/Composites/Imm. Polymer Blends	Monday	2:30 – 5:30	San Carlos IV
HS-3. Immiscible Polymer Blends	Tuesday	9:45 – 11:45	San Carlos IV
HS-4. Immiscible & Miscible Polymer Blends	Tuesday	2:30 – 5:30	San Carlos IV
HS-5. Block Copolymers	Thursday	9:45 – 11:45	San Carlos IV

HS-6. Telechelic/Associative Polymers	Thursday	2:30 – 5:30	San Carlos IV
HS-7. Telechelic/Associative Polymers	Friday	9:45 – 11:45	San Carlos IV
Bio-Rheology			
BR-1. Rheology of the Cytoskeleton	Tuesday	9:45 – 11:45	Redwood
BR-2. Rheology of Biomacromolecules	Tuesday	2:30 – 5:30	Redwood
BR-3. Physiological Fluids I	Wednesday	9:45 – 11:45	Redwood
BR-4. Physiological Fluids II	Thursday	9:45 – 11:45	Redwood
BR-5. Rheology of Tissues and Scaffolds	Thursday	2:30 – 5:30	Redwood
BR-6. Cell Mechanics	Friday	9:45 – 11:45	Redwood
Suspensions and Colloids			
SC-1. Particle Level Simulation and Theory I	Monday	9:45 – 11:45	De Anza III
SC-2. Particle Level Simulation and Theory II	Monday	2:30 – 5:30	De Anza III
SC-3. Yielding and Thixotropy I	Tuesday	9:45 – 11:45	De Anza III
SC-4. Jamming and Shear Thickening	Tuesday	2:30 – 5:30	De Anza III
SC-5. Yielding and Thixotropy II	Wednesday	9:45 – 11:45	De Anza III
SC-6. Suspension Hydrodynamics I	Wednesday	9:45 – 11:45	Portola
SC-7. Yielding and Thixotropy III	Thursday	9:45 – 11:45	De Anza III
SC-8. Suspension Hydrodynamics II	Thursday	9:45 – 11:45	Portola
SC-9. Dynamics and Scattering in Colloids	Thursday	2:30 – 5:30	De Anza III
SC-10. Multiphase Flows	Thursday	2:30 – 5:30	Portola
SC-11. Field Effects: ER and MR Fluids	Friday	9:45 – 11:45	De Anza III
SC-12. Colloids, Nanotubes and Nanocomposites	Friday	9:45 – 11:45	Portola
Surfactants, Emulsions and Foams			
SE-1. Rheology of Foams	Monday	2:30 – 5:30	De Anza II
SE-2. Foam Stability	Tuesday	9:45 – 11:45	De Anza II
SE-3. Complex Flows in Surface Active Systems	Tuesday	2:30 – 5:30	De Anza II
SE-4. Surfactant Solutions	Wednesday	9:45 – 11:45	De Anza II
SE-5. Emulsions	Thursday	9:45 – 11:45	De Anza II
SE-6. Liquid-Liquid Systems and Blends	Thursday	2:30 – 5:30	De Anza II
Granular Materials and Ageing			
GA-1. Collisional Flows and Inelastic Gases	Wednesday	9:45 – 11:45	Bonsai III
GA-2. Modeling and Expt. in Quasi-Static Limit	Thursday	2:30 – 5:30	Bonsai III
GA-3. Advances in Simulation Techniques	Friday	9:45 – 11:45	Bonsai III
Microfluidics			
MF-1. Microfluidics with Polymers	Monday	9:45 – 11:45	Portola
MF-2. Microfluidics: Non-Newtonian Flows	Monday	2:30 – 5:30	Portola
MF-3. Microfluidics: Surface Wettability	Tuesday	9:45 – 11:45	Portola
MF-4. Microfluidics: Droplets	Tuesday	2:30 – 5:30	Portola
Colloidal Gels and Glasses			
CG-1. Slow Dynamics, Aging and Transitions	Wednesday	9:45 – 11:45	San Carlos I
CG-2. Induced Gels and Attractive Glasses	Thursday	9:45 – 11:45	San Carlos I
CG-3. Gels and Glasses	Thursday	2:30 – 5:30	San Carlos I
CG-4. Yielding	Friday	9:45 – 11:45	San Carlos I
Interfacial Rheology			
IR-1. Interfacial Rheology and Thin Film Flow	Monday	9:45 – 11:45	Bonsai I
IR-2. Interfacial Rheology and Thin Film Flow	Monday	2:30 – 5:30	Bonsai I
IR-3. Interfacial Rheology and Thin Film Flow	Tuesday	9:45 – 11:45	Bonsai I
Micro-Rheology			
MR-1. Cells and Non-Equilibrium Systems	Monday	9:45 – 11:45	Redwood
MR-2. Passive and Active Microrheology	Monday	2:30 – 5:30	Redwood
New Experimental Methods			
EM-1. Free Surface Rheometry	Monday	9:45 – 11:45	De Anza I
EM-2. Extensional Rheometry	Monday	2:30 – 5:30	De Anza I
EM-3. Amplitude Oscillation Shear Rheometry	Tuesday	9:45 – 11:45	De Anza I
EM-4. RheoOptics/NMR	Wednesday	9:45 – 11:45	De Anza I
EM-5. Microscopic and Microfluidic Rheometry	Thursday	9:45 – 11:45	De Anza I
EM-6. Extreme Rheology	Thursday	2:30 – 5:30	De Anza I
EM-7. Squeeze Flow Rheometry	Friday	9:45 – 11:45	De Anza I
Food Rheology			
FR-1. Food Gels and Perception	Tuesday	2:30 – 5:30	Bonsai I
FR-2. Food Dispersions	Wednesday	9:45 – 11:45	Bonsai I
Rheology of Solids and Glasses			
SG-1. Polymer Dynamics	Monday	9:45 – 11:45	San Carlos II
SG-2. Glass Transition Dynamics	Monday	2:30 – 5:30	San Carlos II
SG-3. Effect of Nanoconfinement on Dynamics	Tuesday	9:45 – 11:45	San Carlos II
SG-4. Effect of Nanoconfinement on Dynamics	Tuesday	2:30 – 5:30	San Carlos II
SG-5. Mechanics of Nanocomposites	Wednesday	9:45 – 11:45	San Carlos II
SG-6. Numerical Simulations	Thursday	9:45 – 11:45	San Carlos II
SG-7. Modeling	Thursday	2:30 – 5:30	San Carlos II
SG-8. Polymer Viscoelasticity	Friday	9:45 – 11:45	San Carlos II
General Rheology			
GR-1. General Rheology	Monday	9:45 – 11:45	Bonsai III
GR-2. General Rheology	Monday	2:30 – 5:30	Bonsai III
GR-3. General Rheology	Tuesday	9:45 – 11:45	Bonsai III
GR-4. General Rheology	Tuesday	2:30 – 5:30	Bonsai III
Poster Session			
	Tuesday	6:00 – 9:00	Serra I

Presentation and Event Schedule

Sunday – August 3, 2008

2:00	Registration 2:00 – 8:00 (<i>De Anza Foyer</i>)
6:00	Opening Reception 6:00 – 8:00 (<i>Serra I</i>)

Monday – August 4, 2008

8:00	Opening Ceremonies (<i>Serra I</i>)												
8:20	P. Callaghan (PL1, <i>Serra I</i>)												
9:15	Coffee Break (<i>Serra II</i>)												
9:45	HS1	SG1	HP1	HP7	MR1	MP1	IR1	SC1	GR1	CF1	MF1	EM1	CF7
10:05	HS2	SG2	HP2	HP8	MR2	MP2	IR2	SC2	GR2	CF2	MF2	EM2	CF8
10:25	HS3	SG3	HP3	HP9	MR3	MP3	IR3	SC3	GR3	CF3	MF3	EM3	CF9
10:45	HS4	SG4	HP4	HP10	MR4	MP4	IR4	SC4	GR4	CF4	MF4	EM4	CF10
11:05	HS5	SG5	HP5	HP11	MR5	MP5	IR5	SC5	GR5	CF5	MF5	EM5	CF11
11:25	HS6			HP12			IR6	SC6	GR6	CF6	MF6	EM6	CF12
11:45	Lunch Break												
1:15	M. Rubinstein (KL1, <i>Steinbeck</i>) / H. Stone (KL2, <i>Serra I</i>)												
2:00	Coffee Break (<i>Serra II</i>)												
2:30	HS7	SG7	HP13	HP22	MR7	MP7	IR7	SC7	GR7	CF13	MF7	EM7	SE1
2:50	HS8	SG8	HP14	HP23	MR8	MP8	IR8	SC8	GR8	CF14	MF8	EM8	SE2
3:10	HS9	SG9	HP15	HP24	MR9	MP9	IR9	SC9	GR9	CF15	MF9	EM9	SE3
3:30	HS10	SG10	HP16	HP25	MR10	MP10	IR10	SC10	GR10	CF16	MF10	EM10	SE4
3:50	HS11	SG11	HP17	HP26	MR11	MP11	IR11	SC11	GR11	CF17	MF11	EM11	SE5
4:10	HS12	SG12	HP18	HP27	MR12	MP12	IR12	SC12	GR12	CF18	MF12	EM12	SE6
4:30	HS13	SG13	HP19	HP28	MR13	MP13	IR13	SC13	GR13	CF19	MF13		SE7
4:50	HS14		HP20	HP29	MR14	MP14	IR14	SC14		CF20	MF14		SE8
5:10	HS15		HP21	HP30	MR15	MP15				CF21	MF15		
5:30	End												
7:30	Strolling Dinner Reception 7:30 – 10:30 (<i>Monterey Bay Aquarium</i>). Bus transportation begins at 7:00.												

Tuesday – August 5, 2008

8:30	K. Urayama (KL3, <i>Serra I</i>) / J. Cooper-White (KL4, <i>Steinbeck</i>)												
9:15	Coffee Break (<i>Serra II</i>)												
9:45	HS16	SG16	HP31	HP37	BR1	MP16	IR16	SC16	GR16	CF22	MF16	EM16	SE10
10:05	HS17	SG17	HP32	HP38	BR2	MP17	IR17	SC17	GR17	CF23	MF17	EM17	SE11
10:25	HS18	SG18	HP33	HP39	BR3	MP18	IR18	SC18	GR18	CF24	MF18	EM18	SE12
10:45	HS19	SG19	HP34	HP40	BR4	MP19	IR19	SC19	GR19	CF25	MF19	EM19	SE13
11:05	HS20	SG20	HP35	HP41	BR5	MP20	IR20	SC20	GR20	CF26	MF20	EM20	SE14
11:25		SG21	HP36	HP42					GR21	CF27	MF21	EM21	
11:45	Lunch Break												
1:15	N. Balsara (KL5, <i>De Anza I-II</i>) / A. Rey (KL6, <i>Steinbeck</i>)												
2:00	Coffee Break (<i>Serra II</i>)												
2:30	HS22	SG22	HP43	FR1	BR7	MP22	MP31	SC22	GR22	CF28	MF22	CF37	SE16
2:50	HS23	SG23	HP44	FR2	BR8	MP23	MP32	SC23	GR23	CF29	MF23	CF38	SE17
3:10	HS24	SG24	HP45	FR3	BR9	MP24	MP33	SC24	GR24	CF30	MF24	CF39	SE18
3:30	HS25	SG25	HP46	FR4	BR10	MP25	MP34	SC25	GR25	CF31	MF25	CF40	SE19
3:50	HS26	SG26	HP47	FR5	BR11	MP26	MP35	SC26	GR26	CF32	MF26	CF41	SE20
4:10	HS27	SG27	HP48	FR6	BR12	MP27	MP36	SC27	GR27	CF33	MF27	CF42	SE21
4:30	HS28	SG28	HP49	FR7	BR13	MP28	MP37	SC28	GR28	CF34	MF28	CF43	SE22
4:50	HS29		HP50	FR8	BR14	MP29		SC29		CF35	MF29	CF44	SE23
5:10				FR9				SC30		CF36	MF30		SE24
5:30	End												
6:00	Poster Session 6:00 – 9:00 (<i>Serra I</i>)												
7:00	Poster Session Reception 7:00 – 9:30 (<i>De Anza I</i>)												

Presentation and Event Schedule

Wednesday – August 6, 2008

8:30	M. Cloitre (KL7, <i>Steinbeck</i>) / H. C. Öttinger (KL8, <i>Serra I</i>)											
9:15	Coffee Break (<i>Serra II</i>)											
9:45	SG31	HP52	FR10	BR16	MP40	CG1	SC31	SC37	CF46	GA1	EM22	SE25
10:05	SG32	HP53	FR11	BR17	MP41	CG2	SC32	SC38	CF47	GA2	EM23	SE26
10:25	SG33	HP54	FR12	BR18	MP42	CG3	SC33	SC39	CF48	GA3	EM24	SE27
10:45	SG34	HP55	FR13	BR19	MP43	CG4	SC34	SC40	CF49	GA4	EM25	SE28
11:05	SG35	HP56	FR14	BR20	MP44	CG5	SC35	SC41	CF50	GA5	EM26	SE29
11:25		HP57	FR15	BR21	MP45	CG6		SC42	CF51	GA6	EM27	SE30
11:45	End											
12:00	Wednesday Afternoon Excursion (Times and venues vary, box lunch provided)											
6:30	Wednesday Night Beach Party 6:30 – 11:00 (<i>Pirate's Cove</i>)											

Thursday – August 7, 2008

8:30	V. Steinberg (KL9, <i>Serra I</i>) / J. Youn (KL10, <i>Steinbeck</i>)											
9:15	Coffee Break (<i>Serra II</i>)											
9:45	HS31	SG37	HP58	BR22	MP46	CG7	SC43	SC49	CF52		EM28	SE31
10:05	HS32	SG38	HP59	BR23	MP47	CG8	SC44	SC50	CF53		EM29	SE32
10:25	HS33	SG39	HP60	BR24	MP48	CG9	SC45	SC51	CF54		EM30	SE33
10:45	HS34	SG40	HP61	BR25	MP49	CG10	SC46	SC52	CF55		EM31	SE34
11:05	HS35	SG41	HP62	BR26	MP50	CG11		SC53			EM32	SE35
11:25		SG42	HP63			CG12		SC54			EM33	SE36
11:45	Lunch Break											
1:15	P. Olmsted (KL11, <i>Steinbeck</i>) / M. Mackay (KL12, <i>Serra I</i>)											
2:00	Coffee Break (<i>Serra II</i>)											
2:30	HS37	SG43	HP64	BR28	MP52	CG13	SC55	SC64	CF58	GA7	EM34	SE37
2:50	HS38	SG44	HP65	BR29	MP53	CG14	SC56	SC65	CF59	GA8	EM35	SE38
3:10	HS39	SG45	HP66	BR30	MP54	CG15	SC57	SC66	CF60	GA9	EM36	SE39
3:30	HS40	SG46	HP67	BR31	MP55	CG16	SC58	SC67	CF61	GA10	EM37	SE40
3:50	HS41	SG47	HP68	BR32	MP56	CG17	SC59	SC68	CF62	GA11	EM38	SE41
4:10	HS42	SG48	HP69	BR33	MP57	CG18	SC60	SC69	CF63	GA12	EM39	SE42
4:30	HS43	SG49	HP70	BR34	MP58	CG19	SC61	SC70	CF64	GA13	EM40	SE43
4:50	HS44	SG50	HP71	BR35	MP59	CG20	SC62	SC71	CF65	GA14	EM41	
5:10		SG51	HP72		MP60	CG21		SC72		GA15		
5:30	End											
5:45	SoR Business Meeting (<i>De Anza I</i>)											
7:00	Thursday Reception 7:00 – 8:00 (<i>Serra II</i>)											
8:00	Thursday Banquet 8:00 – 10:00 (<i>Serra I</i>)											

Friday – August 8, 2008

8:30	S. Milner (KL13, <i>Serra I</i>) / R. Iverson (KL14, <i>Steinbeck</i>)											
9:15	Coffee Break											
9:45	HS46	SG52	HP73	BR37	MP61	CG22	SC73	SC79	CF67	GA16	EM43	
10:05	HS47	SG53	HP74	BR38	MP62	CG23	SC74	SC80	CF68	GA17	EM44	
10:25	HS48	SG54	HP75	BR39	MP63	CG24	SC75	SC81	CF69	GA18	EM45	
10:45	HS49	SG55	HP76	BR40	MP64	CG25	SC76	SC82	CF70	GA19	EM46	
11:05	HS50	SG56	HP77	BR41		CG26	SC77	SC83	CF71		EM47	
11:25	HS51		HP78			CG27	SC78				EM48	
11:45	Break											
12:00	F. MacKintosh (PL2, <i>Serra I</i>)											
1:00	Friday Closing Reception/Lunch 1:00 – 3:00 (<i>Serra II</i>)											

8:00	OPENING CEREMONIES (Serra I)		
8:20	PL1. From molecules to mechanics: Nuclear magnetic resonance and rheological insight. <i>P. T. Callaghan</i> (Serra I)		
9:15	COFFEE BREAK (Serra II)		
	San Carlos IV Liquid Crystalline Polymers & FIC	San Carlos II Polymer Dynamics	San Carlos III Unentangled Polymers
9:45	HS1. The modification of time-dependent mechanical properties of polyamides due to sterilization. <i>U. Florjancic, B. Zupancic, E. Sutton, K. Renner Sitar, L. Marion, U. Batista, D. Groselj and I. Emri</i>	SG1. The bulk modulus of polystyrene and comparison to the shear modulus. <i>S. L. Simon and Y. Meng</i>	HP1. Dynamics of single tethered DNA in shear flow. <i>C. A. Lueth and E. Shaqfeh</i>
10:05	HS2. Simulations of shearing rheology of thermotropic liquid crystalline polymers. <i>H. Chen and A. J. Leonov</i>	SG2. Crystals in polymers may afford better mechanical performance than solid mesophases. <i>F. Auriemma and C. De Rosa</i>	HP2. Modelling the dynamic scaling of dilute polymer solutions and its application to rheology. <i>P. Sunthar and J. R. Prakash</i>
10:25	HS3. Effects of director angle anchoring conditions on the dynamic moduli of heterogeneous nematic polymers. <i>E. P. Choate, M. G. Forest, Z. Cui and L. Ju</i>	SG3. Component terminal dynamics in miscible, interacting blends. <i>S. N. Ozair and T. P. Lodge</i>	HP3. Evaluation of the Gaussian Blob model for coarse-graining hydrodynamic interactions in isolated polymer molecules. <i>R. Prabhakar</i>
10:45	HS4. Solid-like properties of liquid crystal in smectic phase controlled with electric field applied. <i>T. Narumi, H. Uematsu and T. Hasegawa</i>	SG4. Multivariate feature of dielectric relaxation processes in liquid sugar alcohol system with the glass transition. <i>R. Nozaki</i>	HP4. A Brownian dynamics study of the effect of solvent quality on the coil-stretch transition. <i>S. Somani, E. Shaqfeh and J. R. Prakash</i>
11:05	HS5. Kinetic Monte Carlo simulations of anisotropic nucleation in polymer melts under strong flow. <i>R. S. Graham and P. D. Olmsted</i>	SG5. Dynamics and morphology of grafted copolymers. <i>S. Etienne, M. Billy, A. Jonquères, R. Clement and L. David</i>	HP5. On the influence of excluded volume in polymer melts. <i>H. Meyer, J. P. Wittmer and J. Baschnagel</i>
11:25	HS6. Density fluctuations in crystallizing polymers: Fact or fiction? <i>J. Baert and P. Van Puyvelde</i>		
	Bonsai I Interfacial Rheology and Thin Film Flow	De Anza III Particle Level Simulation and Theory I	Bonsai III General Rheology
9:45	IR1. Protusion effects of a sphere at an air/water interface. <i>P. Dhar, T. M. Fischer, V. Prasad and E. Weeks</i>	SC1. Microstructure and rheology in sheared suspensions of anisotropic dicolloids. <i>A. Kumar and J. Higdon</i>	GR1. On the use of Laplace transform inversion for reconstruction of relaxation spectra. <i>M. Renardy</i>
10:05	IR2. Flow-induced assembly of nickel nanoparticles. <i>N. A. Russell, T. Borca-Tasciuc and A. H. Hirs</i>	SC2. Transient forces in particle based simulations of complex fluids. <i>W. J. Briels</i>	GR2. Constitutive equation for polymer networks with phonon fluctuations. <i>R. Hansen, A. L. Skov and O. Hassager</i>
10:25	IR3. Self-assembly and surface rheology of 2D suspension of ellipsoids. <i>B. Madivala, J. Fransaer and J. Vermant</i>	SC3. Dynamical heterogeneities in attractive colloids. <i>E. Del Gado, A. Fierro, A. de Candia and A. Coniglio</i>	GR3. A new approach to determine the nonlinear parameter of the Giesekus constitutive model. <i>A. Calin, M. Wilhelm and C. Balan</i>
10:45	IR4. Linear and nonlinear interfacial microrheometry. <i>S. Y. Choi, S. Steltenkamp and T. M. Squires</i>	SC4. Numerical simulations of suspensions of elastic particles in polymer melts. <i>A. Malidi and O. G. Harlen</i>	GR4. Energy elastic effects in flowing polymeric liquids and the concept of nonequilibrium temperature. <i>M. Hütter, C. Luap and H. C. Öttinger</i>
11:05	IR5. Polar fluid model of viscoelastic membranes and interfaces. <i>A. D. Rey</i>	SC5. Molecular hydrodynamics in nanoparticle suspensions. <i>S. Kohale and R. Khare</i>	GR5. A new closure approximation for the fourth moment of a representative microstructure vector and its consequence on partially extending strand convection models. <i>R. L. Thompson</i>
11:25	IR6. Interfacial shear rheology of coffee samples. <i>J. Laeuger and P. Heyer</i>	SC6. Rotation of a sphere in viscoelastic fluid under flow. <i>F. Snijkers, G. D'Avino, P.-L. Maffettone, F. Greco, M. A. Hulsen and J. Vermant</i>	GR6. Polymer rheology and the hydrodynamic theory of transient elasticity. <i>H. Pleiner, O. Mueller, M. Liu and H. R. Brand</i>
11:45	LUNCH BREAK		

OPENING CEREMONIES (Serra I)			8:00
PL1. From molecules to mechanics: Nuclear magnetic resonance and rheological insight. <i>P. T. Callaghan</i> (Serra I)			8:20
COFFEE BREAK (Serra II)			9:15
<i>San Carlos I</i> Polyelectrolytes and Ionomers	<i>Redwood</i> Cells and Non-Equilibrium Systems	<i>Ferrante I-III</i> Extension Dominated Flows	
HP7. Polyelectrolyte solution rheology. <i>R. H. Colby</i>	MR1. Microrheology in living cells. <i>C. P. Brangwynne, G. H. Koenderink, F. MacKintosh and D. A. Weitz</i>	MP1. Transient solutions of nonlinear dynamics in film blowing accompanied by flow-induced crystallization. <i>J. C. Hyun, H. W. Jung, J. S. Lee, D. M. Shin, S. W. Choi and J. Y. Lee</i>	9:45
HP8. Ionic effects on the dynamics of DNA confined in nanoslits. <i>C.-C. Hsieh and P. S. Doyle</i>	MR2. Stress relaxation, stiffening and fluidization of adherent cells. <i>P. Kollmannsberger and B. Fabry</i>	MP2. Measurement and modeling of flow-enhanced crystallization in bicomponent blown film extrusion. <i>A. J. McHugh, F. Xu and A. Ogale</i>	10:05
HP9. Ion Solvation Energetics. <i>W. Liu, M. J. Janik and R. H. Colby</i>	MR3. Nonequilibrium mechanics and stress-fluctuation in the motor-activated cytoskeletons. <i>D. Mizuno, C. Tardin, D. Head, F. MacKintosh and C. Schmidt</i>	MP3. Modeling of crystallizing polymer melts in electrospinning. <i>E. Zhmayer and Y. L. Joo</i>	10:25
HP10. Viscoelasticity, conformational transition and ultrastructure of kappa-carrageenan in the presence of potassium ion around the critical total ion concentration. <i>M. C. Núñez-Santiago, A. Tecante, S. Durand, C. Garnier and J. L. Doublier</i>	MR4. Episodic dynamics in biomicro-rheology. <i>T. G. Mason</i>	MP4. Rheological and film-casting properties of well-characterised polyethylenes with different branching structure. <i>D. Auhl, S. Kunamaneni, C. W. Seay, C. D. McGrady, D. G. Baird and T. C. McLeish</i>	10:45
HP11. Viscoelastic properties of cellulose in 1-butyl-3-methylimidazolium chloride. <i>Y. Takahashi, A. Takada and K. Imaichi</i>	MR5. Dynamics of different probe particles to study local micro-environments inside living cells. <i>M. H. Duits, S. A. Vanapalli, Y. Li and F. Mugele</i>	MP5. What are universal features in uniaxial extension of entangled polymer melts? <i>Y. Wang and S.-Q. Wang</i>	11:05
HP12. Rheology of self-assembling silk fibroin solutions. <i>R. Zhou and X.-F. Yuan</i>			11:25
<i>Steinbeck</i> Flow Instabilities I	<i>Portola</i> Microfluidics with Polymers	<i>De Anza I</i> Free Surface Rheometry	<i>Colton I-III</i> Computational & Multiscale Modeling I
CF1. Field measurement techniques applied to rheometry of secondary flows of LDPE and correlation to viscoelastic models. <i>D. Hertel, G. Boukellal, R. Valette, J.-F. Agassant and H. Münstedt</i>	MF1. Nanofluidic t-junctions for single molecule DNA mapping. <i>J. Tang, A. Balducci and P. S. Doyle</i>	EM1. Linear viscoelastic rheology and extensional flow behaviour of low viscosity viscoelastic polymer solutions and inkjet fluids. <i>T. R. Tuladhar and M. R. Mackley</i>	CF7. Hi fidelity multiscale flow simulation of dilute polymeric solutions in complex kinematics flows. <i>A. P. Koppol, R. Sureshkumar and B. Khomami</i>
CF2. Suppression of interfacial and free-surface instabilities in the flow of polymeric liquid layers. <i>V. Shankar</i>	MF2. Use of stagnation point flows for DNA trapping, manipulation, and target sequence detection. <i>R. Dylla-Spears, L. L. Sohn and S. J. Muller</i>	EM2. Formation and pinch-off of viscoelastic filaments: Numerical analysis and ink jet experiments. <i>P. P. Bhat, M. Pasquali and O. A. Basaran</i>	CF8. Towards a Fokker-Planck rheometer. <i>F. Chinesta, A. Ammar and R. Keunings</i>
CF3. Experimental and computational identification of a polymer melt flow instability. <i>D. G. Hassell, M. R. Mackley, M. Sahin and H. J. Wilson</i>	MF3. Elongation deformation of DNA polymers in micro flow. <i>M. Ouchi, T. Narumi, T. Hasegawa, T. Takahashi and M. Shirakashi</i>	EM3. Measurement of rheological properties under high shear rate induced by collision of microdroplets. <i>T. Hirano and K. Sakai</i>	CF9. Single-chain dynamics of linear polyethylene liquids under shear. <i>J. M. Kim, B. J. Edwards, B. Khomami and D. J. Keffer</i>
CF4. Co-extrusion instabilities modelled with a single fluid. <i>T. D. Gough, T. Reis and H. J. Wilson</i>	MF4. Conformation and diffusion of a single polyelectrolyte chain in confined spaces of nano/microchannels: Simulation and experiment. <i>M.-S. Chun, D.-E. Lee and C. Kim</i>	EM4. Pulse jets, rims, and elastic-liquid sheets: Rheology of high strain rates and rupture criteria. <i>V. V. Mitkin, A. N. Rozhkov and T. G. Theofanous</i>	CF10. A fluid particle method for the discretization of the Oldroyd-B model with thermal fluctuations. <i>M. Ellero and P. Espanol</i>
CF5. Numerical studies of axial instability in contraction flow. <i>A. V. Gagov and A. I. Leonov</i>	MF5. Polyelectrolyte adsorption in shear flow with hydrodynamic interaction: Kinetic theory and Brownian dynamics simulations. <i>N. Hoda and S. Kumar</i>	EM5. Evaluation of planar elongation viscosity by drag force acting on a bullet bob. <i>T. Takahashi and M. Shirakashi</i>	CF11. 3D viscoelastic flow of a falling sphere in a Couette flow. <i>P. D. Anderson and M. A. Hulsen</i>
CF6. On extensibility effects in the cross-slot flow bifurcation. <i>G. N. Rocha, R. J. Poole, M. A. Alves and P. J. Oliveira</i>	MF6. Bending dynamics of individual single-walled carbon nanotubes. <i>N. Fakhri, D. A. Tsyboulski, L. Cognet, R. B. Weisman and M. Pasquali</i>	EM6. A conveyor belt setup for studying gravity free surface flows of complex fluids. <i>G. Chambon, A. Ghemmour and D. Laigle</i>	CF12. Numerical solution of the PTT constitutive equation for three-dimensional unsteady free surface flows. <i>M. F. Tome, G. S. Paulo and F. T. Pinho</i>
LUNCH BREAK			

1:15	KL1. Dynamics of entangled polymers. <u>M. Rubinstein</u> , S. Panyukov, D. Shirvanyants, M. Lang and D. Vlassopoulos (Steinbeck)		
2:00	COFFEE BREAK (Serra II)		
	San Carlos IV FIC/Composites/Imm. Polymer Blends	San Carlos II Glass Transition Dynamics	San Carlos III Entangled Polymers I
2:30	HS7. Rheological modeling of flow-induced crystallization in polymer melts and limitations on classification of experiments. <u>R. J. Steenbakkers</u> , G. W. Peters and H. Meijer	SG7. The role of molecular length and connectivity in the relaxation scenario of supercooled liquids. <u>J. Mattsson</u> , R. Bergman, P. Jacobsson and L. Börjesson	HP13. Finding tube dynamics in a class of slip-links models. <u>J. Ramirez</u> and A. E. Likhtman
2:50	HS8. The specific work of flow as a universal parameter to control formation of shish-kebab morphology in polymers. <u>Q. O. Mykhaylyk</u> , P. Chambon, R. S. Graham, P. Fairclough, P. D. Olmsted and A. J. Ryan	SG8. Scaling of the structural relaxation in supercooled fragile liquids and simulated liquid silica. <u>A. Le Grand</u> , <u>C. Dreyfus</u> , C. Bousquet, R. Pick, J. Gapinski, A. Patkowski and W. Steffen	HP14. Slip-link simulations and comparison to single molecule studies of entangled DNA in shear and extensional flow. <u>A. K. Dambal</u> and E. Shaqfeh
3:10	HS9. Flow-induced crystallization of bimodal blends of ethylene copolymers and high density polyethylene. <u>D. S. Smirnova</u> and J. A. Kornfeld	SG9. Impact of the application of pressure on fundamental understanding of glass transition. <u>K. L. Ngai</u>	HP15. Self-consistent modeling of constraint release in a single-chain mean-field slip-link model. <u>J. D. Schieber</u> and R. Khaliullin
3:30	HS10. Strain-induced crystallization of poly(L-lactide) tubes under uniaxial and biaxial deformations. <u>J. P. Oberhauser</u> , L. W. Kleiner, J. B. Bebo, V. J. Gueriguian and F.-W. Tang	SG10. Empirical description of the frequency response of glass transition related relaxation processes. <u>R. Bergman</u>	HP16. Checking tube theory postulates with molecular dynamics. <u>A. E. Likhtman</u>
3:50	HS11. Rheology, morphology and temperature dependency of nanotube networks in polycarbonate/multiwalled carbon nanotube composites. <u>S. Abbasi</u> , A. Derdouri and P. J. Carreau	SG11. Effect of crosslinking on segmental and secondary dynamics of polyvinylethylene. <u>R. Casalini</u> and C. M. Roland	HP17. Probing the foundations of tube theory: Comparisons between model and experimental scalings for linear entangled polymers. <u>C. Bailly</u> , R. Keunings and C.-Y. Liu
4:10	HS12. Multifunctional elastomer nanocomposites from functionalized graphene single sheets. <u>R. K. Prud'homme</u>	SG12. Heat capacity and entropy at the glass transition. <u>R. Richert</u>	HP18. Rheology of entangled polymeric liquids through simulations of the primitive chain network model with finite extensibility. <u>T. Yaoita</u> , T. Isaki, Y. Masubuchi, H. Watanabe, G. Ianniruberto, F. Greco and G. Marrucci
4:30	HS13. Strain and morphology induced non-linearities in the viscoelastic behavior of filled polymer systems. <u>J. L. Leblanc</u>	SG13. Relating structure, dynamics and rheology of soft micellar glasses. <u>J. Stellbrink</u> , B. Lonetti, L. Willner and D. Richter	HP19. Chain stretch and relaxations in transient entangled network probed by double-step strain flows. <u>Y. Wen</u> and C. Hua
4:50	HS14. The rheological behaviour of glass-filled high and low density polyethylenes. <u>J. Embery</u> , P. Hine and M. Tassieri		HP20. Tube theory for entangled linear polymers: Influence of different molecular mechanisms in non-linear flows. <u>S. D. Dhole</u> , A. Leygue, R. Keunings and C. Bailly
5:10	HS15. Effect of particles on rheology and morphology of immiscible PI/PDMS polymer blends. <u>P. Thareja</u> and <u>S. Velankar</u>		HP21. Unified mathematical model for linear viscoelastic predictions of linear and branched polymers. <u>J. D. Schieber</u> and R. Khaliullin
	Bonsai I Interfacial Rheology and Thin Film Flow	De Anza III Particle Level Simulation and Theory II	Bonsai III General Rheology
2:30	IR7. Advancing contact line dynamics induced by soluble surfactant deposition on a thin liquid film. <u>O. K. Matar</u>	SC7. Electrokinetic boundary condition compatible with the Onsager reciprocal relation in the thin double layer approximation. <u>M. Doi</u> and M. Makino	GR7. Wall slip during the flow of carbopol solutions through a parallel plate channel. <u>P. R. de Souza Mendes</u> , J. Pédrón and R. A. Pereira
2:50	IR8. Complex rheology of molecularly thin films and the role of surface and structure. <u>A. Jabbarzadeh</u> and R. I. Tanner	SC8. Model analysis on dispersion characteristics of fine particles in Newtonian molten polymer. <u>E. Hasegawa</u> , H. Suzuki, Y. Komoda and H. Usui	GR8. Liquid-liquid displacement flows in an annular space including viscoplastic effects. <u>P. R. de Souza Mendes</u> , J. Celnik and F. H. Marchesini
3:10	IR9. Linear and nonlinear rheology of two dimensional polymers: A Brownian dynamics study. <u>J.-I. Takimoto</u> and Y. Ogawa	SC9. A binary Yukawa mixture under shear: A computer simulation study of the transient dynamics. <u>J. Horbach</u> and J. Zausch	GR9. Numerical investigation of the displacement of a viscous fluid by a viscoplastic material in a capillary tube. <u>J. O. Romero</u> , E. J. Soares and <u>R. L. Thompson</u>
3:30	IR10. Dynamics of adhesion between the spherical PDMS rubber and the glass substrate. <u>Y. Morishita</u> , H. Morita, D. Kaneko and M. Doi	SC10. Anisotropic diffusion model for suspensions of short-fiber composite processes. <u>D. A. Jack</u> , S. Montgomery-Smith and D. E. Smith	GR10. On the nature of bubble velocity discontinuity in non-Newtonian fluids. <u>B. Mena</u>
3:50	IR11. Direct and indirect polymer-polymer interfacial slip measurements in multilayered films. <u>P. Lee</u> , H. E. Park, D. C. Morse, C. Macosko and J. M. Dealy	SC11. Spherical harmonic solutions of fiber orientation probability distributions for composite processes. <u>S. Montgomery-Smith</u> , D. A. Jack and D. E. Smith	GR11. Hydrodynamics for nanofluidic flow. <u>B. D. Todd</u> , J. S. Hansen and P. J. Daivis
4:10	IR12. Molecular dynamics simulation study of the glass transition temperature and the polymer chain dynamics near the substrate. <u>H. Morita</u> , K. Tanaka, T. Nagamura and M. Doi	SC12. Direct numerical simulation of carbon nanofiber composites in simple shear flow. <u>M. Yamanoi</u> and J. M. Maia	GR12. Brownian dynamics of polymers at high strain rates. <u>D. Kivotides</u> , A. N. Rozhkov and T. G. Theofanous
4:30	IR13. Numerical study of transient 3-D viscoelastic drop deformation under shear flow. <u>O. M. Coronado</u> , M. Behr and M. Pasquali	SC13. Simulations and rheology of particle filled polymer melts under shear and extension. <u>O. G. Harlen</u> , A. Malidi, R. Tenchev, P. K. Jimack, M. A. Walkley, P. Hine and J. Embery	GR13. A novel method of measuring the phase behavior and rheology of polyethylene solutions using a multi-pass rheometer. <u>K. Lee</u> , Y. Lacombe and E. Cheluguet
4:50	IR14. Interfacial elasticity of reactively compatibilized PP/PA6 blends. <u>L. Barangi</u> , F. Afshar Taromi, <u>H. Nazockdast</u> and S. Shafiei Sararoudi	SC14. An O(N) Green's function method to calculate hydrodynamic interactions of particles in unbounded and confined geometries. S. G. Anekal, J. P. Hernandez-Ortiz, P. T. Underhill and M. D. Graham	
5:10			
5:30	END		
7:30	STROLLING DINNER RECEPTION 7:30 – 10:30 Monterey Bay Aquarium Bus transportation begins at 7:00		

KL2. Multiphase flows in microfluidic devices: Drops, vesicles, and cells. <i>H. A. Stone</i> (Serra I)		1:15
COFFEE BREAK (Serra II)		
2:00		
<i>San Carlos I</i>	<i>Redwood</i>	<i>Ferrante I-III</i>
Applied and Industrial Rheology	Passive and Active Microrheology	Coating and IT Applications
<p>HP22. Detection of low levels of long-chain branching in polyolefins. T. P. Karjala, R. L. Sammler, M. A. Mangnus, L. G. Hazlitt, M. S. Johnson, C. M. Hagen, J. W. Huang and K. N. Reichek</p> <p>HP23. On the use of indexes for quantifying long-chain branching in polyethylene: Can we describe the rheology of LCB PE and correlate it to processing performance by using a single number? <i>I. Vittorias</i></p> <p>HP24. Temperature dependence of the elastic compliance of polyethylenes with different molecular structure. <i>J. A. Resch</i>, J. Kaschta, F. J. Stadler and H. Münstedt</p> <p>HP25. Rheological properties of HyperMacs — long chain branched analogues of hyperbranched polymers. J. M. Dodds, E. De Luca, L. R. Hutchings and N. Clarke</p> <p>HP26. The influence of shear thinning on elongation hardening of long-chain branched polypropylene. <i>G. Breuer</i> and A. Schausberger</p> <p>HP27. Strain hardening in uniaxial elongation vs. temperature for random copolymer melts with high comonomer content. <i>J. E. Mills</i>, B. Patham, K. Jayaraman, D. Dong and M. Wolkowicz</p> <p>HP28. Thermorheological behaviour of various polyolefins in the linear and non-linear viscoelastic regime. U. Keßner, J. Kaschta, F. J. Stadler and H. Münstedt</p> <p>HP29. Melt rheology of polyvinylidene fluoride: Evidence of long chain branching and microgel formation. L. F. Scanu, G. W. Roberts and S. Khan</p> <p>HP30. Nonlinear viscoelastic and viscoplastic behavior of PET-based multi-layer polymer films used in super-pressure balloon envelopes. <i>M. Hirsekorn</i>, F. Petitjean and A. Deramecourt</p>	<p>MR7. Non-linear microviscosity of a colloidal suspension. <i>I. Sriram</i> and E. M. Furst</p> <p>MR8. Linear and nonlinear microrheology of colloidal suspensions: Two distinct sources of stress. <i>R. J. DePuit</i>, A. S. Khair and T. M. Squires</p> <p>MR9. Bulk and DWS-based microrheology on vesicle depletion mixtures. <i>M. L. Lynch</i> and T. E. Kodger</p> <p>MR10. Multiple particle tracking (MPT) measurements of heterogeneities in acrylic thickener solutions. <i>C. Oelschlaeger</i>, N. Willenbacher and S. Naser</p> <p>MR11. Microrheology of responsive hydrogel networks. T. H. Larsen, J. P. Schneider and E. M. Furst</p> <p>MR12. Modeling aspects of two-bead microrheology. <i>C. Hohenegger</i> and M. G. Forest</p> <p>MR13. Material assembly and gelation kinetics of PEG-heparin hydrogels using multiple particle tracking microrheology. <i>K. M. Schultz</i> and E. M. Furst</p> <p>MR14. Effect of concentration on the microstructure of a yield-stress fluid. <i>F. K. Oppong</i> and J. R. de Bruyn</p> <p>MR15. Micro-rheology using multispeckle DWS with video camera: Application to film formation, drying and rheological stability. <i>L. Brunel</i> and H. Dihang</p>	<p>MP7. Effects of process condition and material properties on replication and structural development in thermal nano-imprinting. T. Matsumoto, K. Miyata, <i>H. Ito</i>, H. Suzuki and T. Furuta</p> <p>MP8. Break-up of viscoelastic liquid curtain. <i>M. Becerra</i> and M. S. Carvalho</p> <p>MP9. Transient coating of the inner wall of a straight tube with a viscoelastic material. Y. Dimakopoulos and <i>J. Tsamopoulos</i></p> <p>MP10. Cracking in drying silica-polymer films: Morphology transitions. <i>M. Yamamura</i>, H. Ono, T. Uchinomiya, Y. Mawatari and H. Kage</p> <p>MP11. The effect of PVA adsorption on stress development during drying in PVA/silica suspension coating. <i>S. Kim</i>, H. Kang, J. H. Sung, K. H. Ahn and S. J. Lee</p> <p>MP12. Rheology and wetting properties of fluxes for flip chip packages. <i>J. Wang</i></p> <p>MP13. Rapid convective deposition of microsphere monolayers for fabrication of microlens arrays. P. Kumnorkaew, Y.-K. Ee, N. Tansu and <i>J. F. Gilchrist</i></p> <p>MP14. Modeling of the stress distribution of the pressure sensitive adhesive in the multi-layered structures. <i>S. J. Park</i></p> <p>MP15. Extruded proton exchange membranes based on sulfonated polyaromatic polymers for fuel cell application. <i>Y. Molmeret</i>, F. Chabert, C. Jojoiu, N. El Kissi, J.-Y. Sanchez and Y. Piffard</p>
<i>Steinbeck</i>	<i>Portola</i>	<i>De Anza I</i>
Flow Instabilities II	Microfluidics: Non-Newtonian Flows	Extensional Rheometry
<p>CF13. The influence of monomer concentration on the flow-induced orientation and viscoelasticity in thermotropic copolyesters: In-situ X-ray scattering. <i>A. Romo-Uribe</i>, M. Dominguez-Diaz, M. E. Romero-Guzmán and A. H. Windle</p> <p>CF14. Numerical investigation of the flow field in confined impinging jets of non-Newtonian fluids. <i>A. S. Cavadas</i>, F. T. Pinho and J. M. Campos</p> <p>CF15. Oscillating hydrodynamical jets in steady shear of nano-rod dispersions. <i>S. Heidenreich</i>, S. Hess, S. L. Klapp, R. Zhou, Q. Wang, H. Zhou, X. Yang and M. G. Forest</p> <p>CF16. Fluid-fluid demixing in shear. <i>S. M. Fielding</i></p> <p>CF17. Analysis of the normal stress differences of viscoelastic fluids under large amplitude oscillatory shear. <i>J. G. Nam</i>, K. H. Ahn and S. J. Lee</p> <p>CF18. Critical phenomenon analysis of shear-banding flow in polymer-like micellar solutions. <i>F. Bautista</i>, J. H. Perez, J. E. Puig and O. Manero</p> <p>CF19. Experimentally assessed three dimensionality of polymer melt flows through abrupt contraction dies. <i>T. D. Gough</i> and P. D. Coates</p> <p>CF20. Purely-elastic flow instabilities in a 3D six arms cross slot geometry. <i>A. M. Afonso</i>, M. A. Alves and F. T. Pinho</p> <p>CF21. Modes of aero-breakup with visco-elastic liquids. <i>C.-L. Ng</i> and T. G. Theofanous</p>	<p>MF7. Elastic instabilities in entry flows: A consequence of upstream stretch or downstream relaxation? <i>L. Rodd</i>, D. Lee, K. H. Ahn and <i>J. J. Cooper-White</i></p> <p>MF8. Effect of viscoelasticity on drop deformation in 5:1:5 contraction/expansion micro-channel flow. <i>C. Chung</i>, J. M. Kim, M. A. Hulsen, K. H. Ahn and S. J. Lee</p> <p>MF9. Microfluidic characterization of the flow of wormlike micelles: Shear-banding, interfacial instability and tracers migration. <i>P. Nghe</i>, G. Degre, P. Tabeling and A. Ajdari</p> <p>MF10. Flow and stability of wormlike micellar and polymeric solutions in converging and T-shaped microchannels. <i>J. Soulages</i> and G. H. McKinley</p> <p>MF11. Reversible and irreversible flow-induced phase transitions in micellar solutions. <i>M. Vasudevan</i>, E. Buse, H. Krishna, A. Shen, R. Kalyanaram, B. Khomami and R. Sureshkumar</p> <p>MF12. Morphology development of immiscible polymer blends in extensional flows developed within a microfluidic device. <i>M. K. Mulligan</i>, C. Clasen and J. P. Rothstein</p> <p>MF13. Extensional effects in viscoelastic fluid flow through a micro-scale double cross-slot. <i>M. N. Oliveira</i>, F. T. Pinho and M. A. Alves</p> <p>MF14. Electro-wetting: A microliter drop rheometer and interfacial tensiometer. <i>A. G. Banpurkar</i>, M. H. Duits and <i>F. Mugele</i></p> <p>MF15. Electrowetting-controlled drop generation in microfluidic flow-focusing devices. <i>F. Malloggi</i>, H. Gu, D. van den Ende, S. A. Vanapalli and <i>F. Mugele</i></p>	<p>EM7. Measuring the elongational properties of polymer melts: A simple task? <i>J. Kaschta</i> and H. Münstedt</p> <p>EM8. Measurement of reversed extension flow using the filament stretch rheometer. <i>H. K. Rasmussen</i>, A. L. Skov, J. K. Nielsen and P. Laille</p> <p>EM9. A new dual controlled stress/rate extensional rheometer for high viscosity systems. <i>J. M. Maia</i>, R. J. Andrade and J. A. Covas</p> <p>EM10. Determination of extensional rheological properties by contraction flow. <i>M. Stading</i></p> <p>EM11. The effect of step-stretch parameters on capillary breakup extensional rheology (CaBER) measurements. <i>J. P. Rothstein</i>, E. Miller, P. Moldenaers and C. Clasen</p> <p>EM12. Break-up in capillary thinning experiments: Using the CaBER to determine maximum tensile strength at low stressing rates. <i>A. S. Lubansky</i>, R. Brad, R. P. Williams, D. Deganello, T. C. Claypole and D. T. Gethin</p>
<i>De Anza II</i>		Rheology of Foams
		<p>SE1. Critical review of foam rheology with application to oil and gas recovery. <i>P. L. Zitha</i></p> <p>SE2. Rheological characterization of foamy oils under pressure. <i>P. Abivin</i>, <i>I. Henaut</i>, M. Moan and J.-F. Argillier</p> <p>SE3. Coupling between interfacial and macroscopic foam rheology. <i>S. Cohen-Addad</i>, R. Hohler, G. Debrégeas and S. Besson</p> <p>SE4. Foam structure and rheology in thin gaps. <i>D. A. Reinelt</i> and A. Kraynyk</p> <p>SE5. Structure and rheology of random wet foam. <i>A. Kraynyk</i> and D. A. Reinelt</p> <p>SE6. Foam rheology in two dimensions. <i>D. Weaire</i></p> <p>SE7. Shear banding in bubble rafts. <i>M. Dennin</i></p> <p>SE8. Localization of topological changes in Couette and Poiseuille flows of two-dimensional foams. <i>S. Cox</i>, A. Wyn and I. T. Davies</p>
END		
STROLLING DINNER RECEPTION 7:30 – 10:30 Monterey Bay Aquarium Bus transportation begins at 7:00		

8:30	KL3. Nonlinear elasticity of elastomers and gels as revealed by multiaxial deformations. <i>K. Urayama</i> (Serra I)		
9:15	COFFEE BREAK (Serra II)		
	San Carlos IV Immiscible Polymer Blends	San Carlos II Effect of Nanoconfinement on Dynamics	San Carlos III Entangled Polymers I
9:45	HS16. Melt rheology of nanoparticle-polymer blends. <i>J. E. Seppala and M. E. Mackay</i>	SG16. Interfacial and confinement effects can modify T_g in thin polymer films by over 100 K and over length scales of several hundred nanometers. <i>J. M. Torkelson, C. B. Roth, R. C. Priestley, S. Kim, P. Rittigstein and M. K. Mundra</i>	HP31. Rheo-dielectric studies of concentrated polyisoprene solutions. <i>J. A. Pathak, R. Casalini, C. M. Roland, S. Capaccioli and N. Hadjichristidis</i>
10:05	HS17. Behaviour of dispersed particles in PS/PE blends during and after elongation. <i>Z. Starý and H. Münstedt</i>	SG17. New thoughts on glass transitions in polymer thin films. <i>J. E. Lipson and S. T. Milner</i>	HP32. Effects of supercritical fluids, pressure, temperature, and molecular structure on the rheological properties of molten polymers. <i>H. E. Park and J. M. Dealy</i>
10:25	HS18. Chemorheological study of blends undergoing polymerization induced phase separation (PIPS). <i>P. T. Mather and X. Luo</i>	SG18. Time-temperature and time-thickness superposition in ultrathin polymer films. <i>P. A. O'Connell and G. B. McKenna</i>	HP33. Universal scaling characteristics of stress overshoot in startup flow of entangled polymer solutions and melts. <i>S. Ravindranath and S.-Q. Wang</i>
10:45	HS19. Rheological properties of PET/PC immiscible polymer blends: Effect of catalysts and stabilizers. <i>S. Mbarek, C. Carrot, M. Jaziri and Y. Chalamet</i>	SG19. Glass transition temperature of polystyrene at interfaces with inorganic substrates by time- and space-resolved fluorescence spectroscopy. <i>K. Tanaka, Y. Tateishi, T. Nagamura, H. Morita and M. Doi</i>	HP34. Establishing a new nonlinear Q parameter from FT-rheology first investigation on monodisperse polymer melts. <i>K. Hyun and M. Wilhelm</i>
11:05	HS20. Numerical investigation of the influence of viscoelasticity on drop deformation in shear. <i>K. Verhulst, R. Cardinaels, P. Moldenaers, Y. Renardy and S. Afkhami</i>	SG20. Molecular dynamics of ultra-thin supported polysulfone films. <i>D. Labahn and A. Schoenhals</i>	HP35. Polydispersity in the tube model. <i>B. Vorselaars and A. E. Likhtman</i>
11:25		SG21. Glassy dynamics in polymer thin films by inelastic neutron scattering. <i>T. Kanaya</i>	HP36. Extensional rheology of polypropylene melts: Experiments and modeling. <i>A. K. Doufas</i>
	Bonsai I Interfacial Rheology and Thin Film Flow	De Anza III Yielding and Thixotropy I	Bonsai III General Rheology
9:45	IR16. Cholesterol effects on the surface viscosity of lung surfactant monolayers. <i>S. Steltenkamp, C. Alonso, T. M. Squires, S. Y. Choi and J. A. Zasadzinski</i>	SC16. Theory of thermodynamic stresses in colloidal dispersions at the glass transition. <i>D. Hajnal, O. Henrich, J. J. Crassous, M. Siebenbürger, M. Drechsler, M. Ballauff and M. Fuchs</i>	GR16. Environmental rheology. <i>D. V. Boger</i>
10:05	IR17. From molecular pressure sensors to surface frictions. <i>H. Xu, F. Sun, D. Shirvanyants, M. Rubinstein, S. Sheiko, K. Matyjaszewski and K. Beers</i>	SC17. Rheology and extrusion of cement-fly ashes pastes. <i>F. Micaelli, C. Lanos and G. Levita</i>	GR17. Sharing the World's advanced rheology through Rheo-Hub. <i>H. H. Winter</i>
10:25	IR18. Viscoelasticity of semifluorinated alkanes at the air-water interface. <i>C. Christopoulou, D. Vlassopoulos, G. Fytas and C. Clark</i>	SC18. Multi-scales analysis to study the rheological behavior of natural mud suspensions. <i>Y. Melinge, P. Estelle, A. Perrot and C. Lanos</i>	GR18. Virtual psychorheometry: Concept and Application. <i>H. Mizunuma, K. Nishizawa, S. Hirose and T. Segawa</i>
10:45	IR19. Rheology measurements of spider-silk proteins adsorption at surfaces. <i>C. Vézzy, K. D. Hermanson, M. Harasim and A. R. Bausch</i>	SC19. Suspensions of noncolloidal particles in yield stress fluids: Experimental and micromechanical approaches. <i>F. Mahaut, X. Chateau, K. Luu Trung, P. Coussot and G. Ovarlez</i>	GR19. Development of branched polycarbonate by an ultrasound-assisted melt mixing process with multifunctional agents. <i>T. Y. Hwang, H. J. Kim, H. Kim and J. W. Lee</i>
11:05	IR20. Modeling and characterization of encapsulated microbubbles for ultrasound imaging and drug delivery. <i>K. Sarkar, P. Jain and D. Chatterjee</i>	SC20. Yield stress. <i>D. V. Boger, K. Walters, M. F. Webster and R. P. Williams</i>	GR20. Couette rheometry from differential approach: Comparative study and experimental application. <i>P. Estelle, C. Lanos, Y. Melinge and A. Perrot</i>
11:25			GR21. Estimation of the molecular weight between crosslinks of crosslinked semicrystalline polyolefins. <i>M. A. Mangnus, T. P. Karjala and M. M. Gelfer</i>
11:45	LUNCH BREAK		

KL4. Biopolymer, protein and protein-biopolymer interfaces and gels: Structure-property-function relationships and relevance to tissue generation. <i>J. J. Cooper-White</i> (Steinbeck)			8:30
COFFEE BREAK (Serra II)			9:15
San Carlos I Cross-linked Polymers and Gels	Redwood Rheology of the Cytoskeleton	Ferrante I-III Injection Molding	
HP37. Analysis of rubber elasticity in terms of crosslinks and entanglement contributions. <i>S. H. Yoo and C. Cohen</i>	BR1. Local deformations and nonlinear elasticity in semiflexible biopolymer matrices. <i>Q. Wen, A. Basu, J. P. Winer, A. Yodh and P. A. Janmey</i>	MP16. High strain rate rheometry of polymer melts using an instrumented injection molding machine. <i>A. L. Kelly, T. D. Gough and P. D. Coates</i>	9:45
HP38. Primitive chain network simulations for particle dispersed polymers. <i>Y. Masubuchi, H. Watanabe, G. Ianniruberto, F. Greco and G. Marrucci</i>	BR2. Nonlinear elasticity of composite networks of stiff biopolymers with flexible linkers. <i>C. P. Broedersz, C. Storm and F. MacKintosh</i>	MP17. In situ x-ray scattering measurements and polydomain simulations of molecular orientation development during injection molding of liquid crystalline polymers. <i>J. Fang and W. R. Burghardt</i>	10:05
HP39. Nonlinear mechanical behavior of scarcely crosslinked poly (dimethyl siloxane) gel: Effect of strand length polydispersity. <i>H. Watanabe, H. Takahashi and Y. Ishimuro</i>	BR3. Microrheology of microtubule and actin-microtubule networks. <i>M. L. Kilfoil, V. Pelletier, A. Orth and D. Foreman-Mackey</i>	MP18. Rheology-structure relationships for wet powder-suspension transformation in extrusion processing. <i>T. O. Althaus and E. J. Windhab</i>	10:25
HP40. Anisotropic thermal conductivity measurements on cross-linked polybutadienes in uniaxial elongation. <i>D. C. Venerus and D. Kolev</i>	BR4. Buckling and force propagation along intracellular microtubules. <i>M. Das, A. J. Levine and F. MacKintosh</i>	MP19. Simulation of orientation in injection molding of high aspect ratio particle thermoplastic composites. <i>G. M. Vélaz-García, A. P. Eberle, K. C. Ortman, D. G. Baird and P. Wapperom</i>	10:45
HP41. Interfacial friction of PDMS network films. <i>L. J. Landherr, L. A. Archer and C. Cohen</i>	BR5. Rheology of reconstituted networks of biopolymers. <i>Y.-C. Lin, K. E. Kasza, N. Y. Yao, S. Volkmer and D. A. Weitz</i>	MP20. Numerical study on the impact of additives on shrinkage of injection molded polypropylene. <i>R. Zheng, C. Hadinata and P. K. Kennedy</i>	11:05
HP42. Rheological models for molecular design of adhesives. <i>G. R. Marin and C. Derail</i>			11:25
Steinbeck Shear Banding I	Portola Microfluidics: Surface Wettability	De Anza I Amplitude Oscillation Shear Rheometry	De Anza II Foam Stability
CF22. Shear banding: Complex dynamics, 3D flows, and boundary conditions. <i>S. M. Fielding</i>	MF16. Probing nanoflows and nanoparticle interactions at less than 100 nm from solid surfaces. <i>C. L. Bouzigues and P. Tabeling</i>	EM16. An ontology for large amplitude oscillatory shear flow. <i>R. H. Ewoldt, A. E. Hosoi and G. H. McKinley</i>	SE10. Influence of interfacial and bulk rheology on stability of foam. <i>N. Duerr-Auster, T. Eisele, P. Fischer and E. J. Windhab</i>
CF23. Simulations of the dynamics and rheology of wormlike micelles. <i>J. T. Padding, E. S. Boek and W. J. Briels</i>	MF17. Low-Reynolds-number hydrodynamics of "slip-stick" particles. <i>J. W. Swan and A. S. Khair</i>	EM17. Non-linear oscillation testing with a separate motor transducer rheometer. <i>A. J. Franck, M. Nowak and R. F. Garritano</i>	SE11. Effects of film elasticity and surface forces on the stability of foams and lamellae films in the presence of non-ionic surfactants. <i>L. Wang and R.-H. Yoon</i>
CF24. Rheology of wormlike micelles in a microchannel: Evidence of non local effects. <i>C. Masselon, J.-B. Salmon and A. Colin</i>	MF18. Driven motion of non ideal fluids on substrates with spatially variable wettability. <i>B. Wu, S. G. Ayodele, F. Varnik and D. Raabe</i>	EM18. A study of polymer architecture with FT-rheology and large amplitude oscillatory shear (LAOS). <i>H. G. Burhin, C. Bailly, R. Keunings, N. Rossion, A. Leygue and H. Pawlowski</i>	SE12. Measurements of wall slip during rise of a physically blown foam. <i>C. M. Brotherton, C. J. Bourdon, A. M. Grillet, L. A. Mondy and R. R. Rao</i>
CF25. Probing shear-banding transitions of entangled liquids using large amplitude oscillatory shearing (LAOS) deformation. <i>L. Zhou, R. H. Ewoldt, L. P. Cook and G. H. McKinley</i>	MF19. Coating of model rheological fluids in microchannels. <i>M. W. Boehm and K. Koelling</i>	EM19. Fourier transform rheology of metallocene LLDPE with controlled long chain branching. <i>I. A. Hussein, M. A. Parvez and J. Soares</i>	SE13. Gas permeability of foam films stabilized with alpha olefin sulfonate (AOS) surfactants. <i>R. Farajzadeh, R. Krastev and P. L. Zitha</i>
CF26. Taylor-like vortices in the shear-banding flow of giant micelles. <i>M.-A. Fardin, S. Lerouge, M. Argentina, G. Grégoire, J.-P. Decruppe and O. Cardoso</i>	MF20. Spreading dynamics of non-Newtonian inkjet drop on solid surface. <i>Y. Son and C. Kim</i>	EM20. On the use of rheology for the investigation of the morphology of blends of natural rubber (NR) and polybutadiene (PB). <i>J. Portal, C. Carrot, J.-C. Majesté, S. Cocard, V. Pélissier, K. Baran and A. Lapra</i>	SE14. Injection of polyamide foam: Experiment and modeling. <i>S. Redoutey and J. Bikard</i>
CF27. Investigation of vorticity structuring in shear-banded flow of wormlike micelles using NMR velocimetry. <i>K. W. Feindel and P. T. Callaghan</i>	MF21. Anomalous reduction in pressure drops of the water flow through micro-orifices in high velocity ranges. <i>T. Hasegawa, A. Ushida and T. Narumi</i>	EM21. Measurement of the rheological properties of magnetorheological fluids using a double concentric Halbach cylinder array. <i>V. C. Barroso, H. Raich, P. Blümmler and M. Wilhelm</i>	
LUNCH BREAK			

1:15	KL5. Independent control over the mechanical and electrical properties of solid polymer electrolytes for lithium batteries. <i>N. P. Balsara, A. Panday and M. Singh</i> (De Anza I-II)		
2:00	COFFEE BREAK (Serra II)		
	San Carlos IV Immiscible & Miscible Polymer Blends	San Carlos II Effect of Nanoconfinement on Dynamics	San Carlos III Entangled Polymers I
2:30	HS22. Polypropylene-polyethylene melts: Phase structure determination by rheology. <i>C. Kock, A. Schausberger, N. Aust, M. Gahleitner, E. Hebesberger and E. Ingolic</i>	SG22. Single sphere suspended in a liquid subjected to shear flows: Effects of confinement. <i>G. D'Avino, G. Cicale, T. Tuccillo, M. A. Hulsen, F. Greco and P.-L. Maffettone</i>	HP43. Thermodynamically-guided nonequilibrium Monte Carlo method for generating realistic shear flows in polymeric materials. <i>C. Baig and V. G. Mavrantzas</i>
2:50	HS23. Non linear viscoelastic behavior of polystyrene/polymethylmetacrylate blends. <i>N. R. Demarquette, M. Yee, A. M. de Souza and T. S. Valera</i>	SG23. Molecular dynamics of confined macromolecules: From the bulk down to polymeric sub-layers. <i>A. Serghei and F. Kremer</i>	HP44. Are entangled polymeric solutions different from melts? <i>M. Acharya, P. K. Bhattacharjee, D. A. Nguyen and T. Sridhar</i>
3:10	HS24. Morphology and rheology of cocontinuous blends. <i>C. R. Lopez-Barron and C. Macosko</i>	SG24. Segmental dynamics of nanostructured polymers. <i>M. Beiner</i>	HP45. Nonlinear rheology of entangled polymer solutions in narrow gaps probed by confocal microscopy. <i>K. A. Hayes, M. R. Buckley, I. Cohen and L. A. Archer</i>
3:30	HS25. The effect of 3rd component on the melt rheology of polymer blend system. <i>K. Koyama, T. Taniguchi, M. Sugimoto, H. Uematsu, T. Inada and T. Iwakura</i>	SG25. Effects of severe confinement on the structure and dynamics in polymer nanocomposites. <i>K. Chrissopoulou, A. Afratis, S. Fotiadou, B. Frick and S. H. Anastasiadis</i>	HP46. Nonlinear behaviour of entangled polymers studied by local rheo-optics and velocimetry. <i>T. Hu</i>
3:50	HS26. Microscopic observation of structural relaxations in systems with tunable confinement and dynamic asymmetry. <i>A. Arbe, J. Colmenero, C. Genix and D. Richter</i>	SG26. Influence of confinement and substrate interaction on the crystallization kinetics of ultrathin films of poly(ethylene terephthalate). <i>S. Capaccioli, C. Rotella, M. Bertoldo, M. Lucchesi, P. Pingue, D. Prevosto and P. Rolla</i>	HP47. Elastic yielding in entangled polymeric liquids: Exploring origin of flow inhomogeneity. <i>S.-O. Wang, S. Ravindranath, Y. Wang, P. E. Boukany and X. Li</i>
4:10	HS27. Submicronic gap of heterogeneous polymer between macroscopic particles: Viscoelastic analysis by a dynamic surface force apparatus. <i>J. P. Montfort and C. Deraul</i>	SG27. Aging phenomena in thin polymer films observed through volume and dielectric susceptibility. <i>K. Fukao and D. Tahara</i>	HP48. Scaling relations in large amplitude oscillatory shear (LAOS) of polymeric fluids. <i>K. S. Cho, K.-W. Song, D. J. Kim and G.-S. Chang</i>
4:30	HS28. Component dynamics in polyisoprene/poly(4-tert-butyl styrene) miscible blends. <i>Q. Chen, Y. Matsumiya, Y. Masubuchi and H. Watanabe</i>	SG28. Aging in PMMA/toluene films. <i>H. Bodiguel, F. Doumenc and B. Guerrier</i>	HP49. What is polymer systems' behavior in the vicinity of "spurt" regime? <i>V. G. Kulichikhin</i>
4:50	HS29. Rheology/morphology relationship of immiscible EPDM/PP based thermoplastic elastomer blends. <i>S. Shahbikhan, P. J. Carreau, M.-C. Heuzey, M. D. Ellul, P. P. Shirodkar and J. Cheng</i>		HP50. Entangled polymer melts under simple shear: Interfacial and internal elastic breakdown. <i>P. E. Boukany, S.-Q. Wang and X. Wang</i>
5:10			
	Colton I-III Nanocomposites	De Anza III Jamming and Shear Thickening	Bonzai III General Rheology
2:30	MP31. Simultaneous determination of electrical and rheological properties of polypropylene filled with carbon nanotubes. <i>C. Triebel, J. Kaschta, N. Katsikis, H. Münstedt, A. Funck and W. Kaminsky</i>	SC22. The microstructure of shear thickening, near hard-sphere, colloidal suspensions. <i>N. J. Wagner and D. P. Kalman</i>	GR22. Rheology of carbon fibre reinforced cement-based mortar. <i>P. F. Banfill, G. Starrs and J. McCarter</i>
2:50	MP32. Rheological behavior of carbon nanofiber-reinforced polypropylene and polystyrene. <i>S. Ceccia, D. Ferri, L. Martinelli, D. Tabuani and P.-L. Maffettone</i>	SC23. Connecting structure and rheology in sheared colloidal suspensions. <i>J. H. McCoy, M. R. Buckley and I. Cohen</i>	GR23. Transient droplet behavior and droplet breakup during bulk and confined shear flow in blends with one viscoelastic component: Experiments, modeling and simulations. <i>R. Cardinaels, K. Verhulst, Y. Renardy and P. Moldenaers</i>
3:10	MP33. Impact of rheology on meltblown polymer nanofibers. <i>D. H. Tan, C. J. Ellison, C. Macosko and F. S. Bates</i>	SC24. Stress chains formation under shear of concentrated suspension. <i>D. Lootens, N. S. Martyts, W. George, S. Satterfield and P. Hébraud</i>	GR24. Effects of particle hardness on shear thickening colloidal suspension rheology. <i>D. P. Kalman, B. A. Rosen and N. J. Wagner</i>
3:30	MP34. Effect of processing conditions on rheological and electrical properties of epoxy/MWCNT dispersions. <i>S. S. Rahatekar, K. K. Koziol, A. H. Windle, E. K. Hobbie and J. W. Gilman</i>	SC25. Dynamics of transient vorticity-aligned structures and internal stresses in shear thickening colloidal gels. <i>C. O. Osuji and D. A. Weitz</i>	GR25. Primary normal stress difference in concentrated, colloidal suspensions. <i>D. Kessler III, D. P. Kalman, R. D. Dombrowski and N. J. Wagner</i>
3:50	MP35. Processing of chlorosulfonic acid-SWNT solutions into neat SWNT fibers. <i>N. Behabtu, N. G. Parra-Vasquez, M. J. Green, V. A. Davis and M. Pasquali</i>	SC26. Extreme velocity fluctuations : Transient jamming in concentrated suspension flow. <i>S. D. Kulkarni, B. Metzger and J. F. Morris</i>	GR26. Shear and extensional rheometry of PDMS tamponade agents used in vitreoretinal surgery. <i>M. Day, R.-L. Blanchard, R. J. English, T. Dobbie, R. L. Williams, M. Garvey and D. Wong</i>
4:10	MP36. New approach of ultrasonic blend process on PP/PC and its nanocomposites. <i>K. Y. Kim and J. W. Lee</i>	SC27. Transient study on the shear thickening behaviour of surface modified fumed silica suspensions in polypropylene glycol. <i>F. J. Galindo-Rosales and F. J. Rubio-Hernández</i>	GR27. Dynamics in confining nanoparticle dispersions. <i>M. Akbulut, J. Israelachvili and R. K. Prud'homme</i>
4:30	MP37. Epoxy/montmorillonite nanocomposite systems: Effect of the dispersion method and the clay modification on the rheological parameters of the curing process. <i>S. Zaioncz, D. C. Maia Filho, B. G. Soares and V. A. Calado</i>	SC28. Measurements of flow elasticity during shear thickening. <i>R. J. Larsen, J.-W. Kim, C. F. Zukoski and D. A. Weitz</i>	GR28. Flow instability of colloidal dispersions flowing through a very small orifice. <i>S. Toga, T. Hasegawa and T. Narumi</i>
4:50		SC29. Implementing the split-Hopkinson pressure bar technique for shear thickening fluid evaluation. <i>A. S. Lim, S. L. Lopatnikov and J. W. Gillespie Jr.</i>	
5:10		SC30. Controlling suspension rheology with novel oligomeric dispersants. <i>A. M. Howe and T. J. Wear</i>	
5:30	END		
6:00	POSTER SESSION 6:00 – 9:00 Serra I		
7:00	POSTER SESSION RECEPTION 7:00 – 9:30 De Anza I		

KL6. Modeling liquid crystal materials and processes in biological systems. <i>A. D. Rey</i> (Steinbeck)			1:15
COFFEE BREAK (Serra II)			2:00
<i>Bonsai I</i> Food Gels and Perception	<i>Redwood</i> Rheology of Biomacromolecules	<i>Ferrante I-III</i> Extrusion	
FR1. Towards a simple constitutive model for bread dough. <i>R. I. Tanner</i>	BR7. What do we learn rheologically from entangled DNA solutions? <i>P. E. Boukany and S.-Q. Wang</i>	MP22. On the study of the die swell of pure and filled linear polystyrene. <i>M. Tassieri, J. Embery, H. Klein and P. Hine</i>	2:30
FR2. Rheology of model dough formulations. <i>K. Desai, S. Lele and A. Lele</i>	BR8. Little shop of horrors: Rheology of the mucilage of <i>Drosophila</i> sp., a carnivorous plant. <i>P. Erni, M. Varagnat and G. H. McKinley</i>	MP23. Correlations between high-density polyethylene viscoelasticity and annular extrudate swell. <i>J. Den Doelder, M. A. Mangnus and B. Kapur</i>	2:50
FR3. Significance of wheat flour dough rheology to gas cell structure development in bread and other baked products. <i>J. Engmann</i>	BR9. A viscoelastic dead fluid in carnivorous pitcher plants. <i>L. Gaume and Y. Forterre</i>	MP24. A new approach to non-Newtonian free-surface flows. <i>P. Slatter, R. Haldenwang and R. Chhabra</i>	3:10
FR4. Rheological changes in squid surimi made by two methods during frozen storage in the presence of different cryoprotectants. <i>L. Campo-Deaño and C. A. Tovar</i>	BR10. Non-linear viscoelastic models for random coil polysaccharide solution rheology over a broad range of concentrations. <i>W. H. Verbeeten and G. W. Peters</i>	MP25. On-line characterisation of small-scale polymer processing. <i>P. F. Teixeira, R. A. Espanhol, J. A. Covas and J. M. Maia</i>	3:30
FR5. Characterisation of fracture behaviour of starch gels using conventional fracture mechanics tests and wire cutting tests. <i>C. Gomonpilas, M. Charalambides, G. J. Williams, P. J. Dooling and S. R. Gibbon</i>	BR11. Viscoelastic properties of sodium hyaluronate solutions. <i>W.-M. Kulicke, F. Meyer, A. O. Bingöel and D. Lohmann</i>	MP26. Using hollow microcapillaries to explore the extrusion rheology of polymer films. <i>D. I. Medina, B. Hallmark and M. R. Mackley</i>	3:50
FR6. First steps in understanding texture perception in the human mouth as an inverse bio-fluid mechanical problem. <i>A. S. Burbidge, J. A. Strassburg and C. Hartmann</i>	BR12. Textural properties of agarose gels described by FT-rheology. <i>C. O. Klein, P. Venema, L. M. Sagis and E. van der Linden</i>	MP27. Rheology at the interface and the role of the interphase in reactive functionalized multilayer polymers in coextrusion process. <i>K. Lamnawar and A. Maazouz</i>	4:10
FR7. Correlation of mouthfeel perceptions with bulk rheology and tribology (lubricity) in dairy emulsions. <i>S. K. Baier, B. D. Guthrie, T. A. Lindgren, S. J. Adam, J. Vanhemelryck, S. Debon, J. Laeuger, P. Heyer and W. R. Aimutis</i>	BR13. Strain-stiffening in networks formed by the self-assembly of biomolecules in organic solvents. <i>S.-H. Tung and S. R. Raghavan</i>	MP28. Effect of polymer processing aids (PPA) on the elimination of sharkskin defect in LLDPE extrusion: Influence of die surfacing. <i>C. Dubrocq-Baritaud, N. Devaux, E. Darque-Ceretti and B. Vergnes</i>	4:30
FR8. Viscosity and wine: A subtle and sublime connection. <i>R. C. Runnebaum, R. L. Powell, R. B. Boulton and H. Heymann</i>	BR14. Vinculin contributes to cell invasion by regulating contractile activation. <i>C. T. Mierke</i>	MP29. Impact of elasticity on lubrication: Esters of PEG, silanol and their blends as polymer processing additives. <i>O. L. Kulikov, K. Hornung and M. H. Wagner</i>	4:50
FR9. Rheological characterization of vegetal pear (<i>Sechium edule</i>). <i>J. A. Castillo-Reyes, G. Luna-Solano and D. Cantú-Lozano</i>			5:10
<i>Steinbeck</i> Shear Banding II	<i>Portola</i> Microfluidics: Droplets	<i>San Carlos I</i> Viscoelastic Turbulence	<i>De Anza II</i> Complex Flows in Surface Active Systems
CF28. Shear-banding: When can we ignore diffusion? <i>H. J. Wilson</i>	MF22. Impact of viscosity ratio on the dynamics of droplet breakup in a microfluidic flow focusing device. <i>S. L. Anna, L. M. Walker and W. Lee</i>	CF37. Near-transition dynamics of viscoelastic turbulence and drag reduction in plane Poiseuille flow. <i>L. Xi, W. Li and M. D. Graham</i>	SE16. Effect of nanoparticle dispersion on rheological properties of flexible polyurethane foams. <i>M. Zamarano, S. S. Rahatekar, R. Kramer, T. J. Ohlemiller, J. R. Shields, R. Harris and J. W. Gilman</i>
CF29. Banded and complex flow of model transient networks. <i>J. Sprakel, E. Spruijt, J. van der Gucht and M. A. Cohen Stuart</i>	MF23. Double emulsions in a microfluidic system. <i>N. Pannacci, T. Lockhart, H. Willaime and P. Tabeling</i>	CF38. Inertio-elastic stability modifications with drag reducing polymeric solutions. <i>C. S. Dutcher and S. J. Muller</i>	SE17. Structure and rheology of particle-laden liquid foam. <i>R. Hohler, S. Cohen-Addad and A. Kraynik</i>
CF30. Shear banding of repulsive particulate suspensions in rotating Couette flow. <i>K. H. Ahn, S. Song and S. J. Lee</i>	MF24. Liquid crystal droplet production in a microfluidic device. <i>A. Shen, B. Hamlington, J. J. Feng and D. Link</i>	CF39. Dynamic K-L analysis of the coherent structures in turbulent viscoelastic channel flows. <i>G. Samanta, A. N. Beris, R. A. Handler and K. Housiadas</i>	SE18. Rayleigh instability in charged globules: Effect of electrolyte and interfacial rheology. <i>R. M. Thakkar and S. Deshmukh</i>
CF31. Shear zones in the capillary flow of concentrated colloidal suspensions. <i>L. Isa, R. Besseling and W. C. Poon</i>	MF25. Effects of surfactant and flow on drop dynamics. <i>S. D. Hudson, J. D. Martin and J. A. Pathak</i>	CF40. Hairpin vortex dynamics and polymer-induced turbulent drag reduction. <i>K. Kim, S. Balachandar, A. Ronald and R. Sureshkumar</i>	SE19. Isotropic-nematic phase transition in a liquid-crystal droplet. <i>X. Chen, B. Hamlington and A. Shen</i>
CF32. Spatially-resolved microstructure in shear banding wormlike micellar solutions. <i>M. E. Helgeson, M. Reichert, N. J. Wagner and E. W. Kaler</i>	MF26. Flow of oil-water emulsion through constricted capillary tubes. <i>S. Cobos, V. Alvarado and M. S. Carvalho</i>	CF41. A priori DNS development of closure for the nonlinear term of the evolution equation of the conformation tensor for FENE-P fluids. <i>P. R. Resende, K. Kyoungyoun, F. T. Pinho and R. Sureshkumar</i>	SE20. Morphology and rheology of polymer/liquid crystal blends. <i>W. Yu, Y. Wu and C. Zhou</i>
CF33. Flow analysis for wormlike micellar solutions in an axisymmetric capillary channel. <i>T. Yamamoto, T. Hashimoto and A. Yamashita</i>	MF27. Coalescence of partially miscible polymer blends in a confined flow. <i>C. Tufano, G. W. Peters and M. E. Han</i>	CF42. Numerical investigations of fully 3-D, time-dependent viscoelastic flows past bluff bodies at moderate to high Reynolds numbers. <i>D. H. Richter, E. Shaqfeh and G. Iaccarino</i>	SE21. Observation of shear flow for surfactant solutions with a rheometer of cone and plate type. <i>T. Koshiba and T. Yamamoto</i>
CF34. Ageing, yielding and shear banding in soft colloidal glasses. <i>S. A. Rogers, D. Vlassopoulos and P. T. Callaghan</i>	MF28. Pairing and collective dynamics of particles and deformable drops in parallel-wall channels. <i>P. Janssen, M. D. Baron, P. D. Anderson, J. Blawdziewicz, M. Loewenberg and E. Wajnryb</i>	CF43. Vortex shedding in confined swirling flows of polymer solutions with a partially rotating disc. <i>S. Tamano, M. Itoh, A. Takagi and K. Yokota</i>	SE22. Effect of surface treatments of rheometer fixture on nonlinear rheology measurements of thread-like micellar solutions. <i>T. Inoue</i>
CF35. Spatial-temporal correlations at the onset of flow in concentrated suspensions. <i>N. S. Marty, D. Lootens, W. George, S. Satterfield and P. Hébraud</i>	MF29. Steady state droplet deformation and orientation during bulk and confined shear flow in blends with one viscoelastic component: Experiments, modeling and simulations. <i>K. Verhulst, R. Cardinaels, Y. Renardy and P. Moldenaers</i>	CF44. Non-linear stability analysis of viscoelastic fluid flows. <i>M. Habisreutinger, N. Fietier and M. Deville</i>	SE23. Flow of viscoelastic wormlike micelle solutions through a periodic array of cylinders. <i>G. R. Moss and J. P. Rothstein</i>
CF36. Timescales and instabilities of shear thinning solutions of wormlike micelles. <i>O. Radulescu, S. Lerouge and B. Lasne</i>	MF30. Hydrodynamic resistance of single confined drops in microchannels. <i>S. A. Vanapalli, A. G. Banpurkar, D. van den Ende, F. Malloggi, M. H. Duits and F. Mugele</i>		SE24. Nanoparticle associated surfactant micellar fluids. <i>J. E. Maxey, J. Crews and T. Huang</i>
END			
POSTER SESSION 6:00 – 9:00 Serra I			
POSTER SESSION RECEPTION 7:00 – 9:30 De Anza I			

8:30	KL7. Tailoring the rheology of soft particle dispersions. <i>M. Cloitre and R. T. Bonnecaze</i> (Steinbeck)		
9:15	COFFEE BREAK (Serra II)		
	San Carlos II Mechanics of Nanocomposites	San Carlos III Polymer Solutions	Bonsai I Food Dispersions
9:45	SG31. Soft glassy NIMS. <i>R. Ganapathy, R. Rodriguez, E. P. Giannelis, L. A. Archer and I. Cohen</i>	HP52. Rheology of dendrimers in solution via Brownian dynamics simulations. <i>J. T. Bosko and J. R. Prakash</i>	FR10. Effects of sugar content and temperature on rheology and microrheology of Israeli honey. <i>D. Wechs</i>
10:05	SG32. Polymer dynamics in C60-polymer nanocomposites. <i>P. F. Green and J. Kropka</i>	HP53. Shear thickening of an amphiphilic polymer solution as studied by large amplitude oscillatory shear flow. <i>J. Wang, C. Chassenteux and J.-F. Tassin</i>	FR11. Rheology of coating materials and their coating characteristics. <i>C. Grabsch and K. Sommer</i>
10:25	SG33. Effect of silica nanoparticles on the local segmental dynamics in polyvinylacetate. <i>R. B. Bogoslovov and C. M. Roland</i>	HP54. Competitive hydrogen-bonding in polymer solutions with mixed solvents. <i>W. E. Krause, R. R. Klossner, R. Shankar, J. T. Weaver, J. H. van Zanten, C. M. Colina, F. Tanaka and R. J. Spontak</i>	FR12. Ultrasound based in-line rheometry of complex fluids. <i>J. A. Wiklund and M. Stading</i>
10:45	SG34. Reinforced elastomers: New insights on local stress heterogeneity and on long time relaxation phenomena; experiments and modelling. <i>P. Sotta, S. Dupres, S. Merabia, P. A. Albouy and D. R. Long</i>	HP55. Shear and temperature induced conformational changes in entangled xanthan solutions. <i>N. B. Wyatt and M. W. Liberatore</i>	FR13. Deformation and break-up of suspension droplets sheared in an immiscible fluid. <i>M. Desse, S. E. Hill, J. R. Mitchell, B. Wolf and T. Budtova</i>
11:05	SG35. The rheology and solid-state properties of polypropylene-silica nanocomposites prepared via in-situ synthesis. <i>H. Goossens, C. Sun, G. W. Peters and S. Jain</i>	HP56. Probe dynamics in semidilute polymer solutions and gels. <i>W. Oppermann and S. Seiffert</i>	FR14. Rheological measurements of an emulsion with matrix viscoelasticity and droplet morphology compared with model predictions. <i>A. Braun, M. Dressler and E. J. Windhab</i>
11:25		HP57. Linear to non-linear rheological behavior of water-soluble polymers with different structures for EOR. <i>S. Wu, Z. Shao and G. Sun</i>	FR15. Novel rheology in a structured food product – Marmite™. <i>D. E. White, G. D. Moggridge and I. Wilson</i>
	De Anza III Yielding and Thixotropy II	Portola Suspension Hydrodynamics I	Steinbeck Computational and Multiscale Modeling 2
9:45	SC31. A pairwise theory for the rheological properties of soft particle pastes. <i>R. T. Bonnecaze, J. Seth and M. Cloitre</i>	SC37. Microrheological origins of the irreversible flow of suspensions. <i>S. Feng, A. Graham, C. Heath, P. Reardon and M. Ingber</i>	CF46. Studies on contraction flows and pressure-drops: Extensional viscosity and dissipative stress effects. <i>H. R. Tamaddon Jahromi, F. S. Syed and M. F. Webster</i>
10:05	SC32. Exploring origins of yield behavior in nanosuspensions. <i>X. Li, P. E. Boukany, X. Wang and S.-Q. Wang</i>	SC38. The effect of shear on the size distribution in concentrated suspensions of non-neutrally buoyant vesicles. <i>A. Ramachandran and G. Leal</i>	CF47. Viscoelastic flow through gradual contractions: Experiments and simulations. <i>F. L. Keegan, M. P. Escudier, M. A. Alves and R. J. Poole</i>
10:25	SC33. Microstructures and mechanical properties of dense particle gels: Microstructural characterization. <i>I. Schenker, F. T. Filser, T. Aste and L. J. Gauckler</i>	SC39. Dimensional effect on viscosity of a confined suspension. <i>P. Peyla, Y. Davit and C. Verdier</i>	CF48. Experimental and computational evaluation of polymer flow for increasing aspect ratio geometries in two complex flows. <i>D. G. Hassell, T. D. Lord and M. R. Mackley</i>
10:45	SC34. Very concentrated plate-like kaolin suspensions under large amplitude oscillatory shear: A microstructural approach. <i>F. Bossard, M. Moan and T. Aubry</i>	SC40. The coagulated behavior of latex particles in a seed coagulation. <i>M. Fukui, T. Ueda, Y. Komoda, H. Suzuki and H. Usui</i>	CF49. Measurement and modelling of high density polyethylene melt extrudate swell. <i>T. M. Nicholson, M. T. Martyn and T. C. McLeish</i>
11:05	SC35. Transition pathways between solid and liquid states of dense suspensions in transient and oscillatory shear flows. <i>L. Heymann, X. Chen and N. Aksel</i>	SC41. Fundamental pair interactions and applications for colloidal silica particles by coarse-grained simulations. <i>C. Lee and C. Hua</i>	CF50. Numerical and experimental studies on extrudate swell of linear and branched polyethylenes. <i>V. Ganvir, B. P. Gautham, R. M. Thakkar and A. Lele</i>
11:25		SC42. Rheology of semi-dilute suspensions of rigid ellipsoids at high Peclet numbers. <i>J. Park, H.-O. Park, J. M. Bricker and J. E. Butler</i>	CF51. Dynamics of branched polymer melts in complex kinematics flows: A computational/experimental study. <i>A. Abedijaberi, B. Khomami, J. Soulages, H. C. Öttinger and M. Kröger</i>
11:45	END		
12:00	WEDNESDAY AFTERNOON EXCURSION Times and venues vary, box lunch provided		
6:30	WEDNESDAY NIGHT BEACH PARTY 6:30 – 11:00 Pirate's Cove		

KL8. Could we raise glasses? <i>H. C. Öttinger</i> (Serra I) – Bingham Lecture			8:30
COFFEE BREAK (Serra II)			9:15
Redwood Physiological Fluids I	Ferrante I-III Other Processes	San Carlos I Slow Dynamics, Aging and Transitions	
BR16. Analysis of shear-dependent erythrocyte aggregation characteristics in a microfluidic rheometry. <i>S. Shin, J.-X. Hou and J.-S. Suh</i>	MP40. Interplay of inertia and elasticity, enhanced heat transfer and change of type of vorticity in tube flow of nonlinear viscoelastic fluids. <i>D. A. Siginer</i>	CG1. Viscoelasticity, gelation and vitrification of suspensions of nonspherical colloids. <i>K. S. Schweizer, G. Yatsenko and M. Tripathy</i>	9:45
BR17. Modeling the vortical structures in hemodynamics of small vessels and capillaries. <i>D. D. Broboana, C. M. Balan, A. Morega, C. Balan, C. Gheorghie and R. Iacob</i>	MP41. Three dimensional flow effects in contraction flows of branched and linear polymer melts. <i>H. Klein, R. Tenchev, T. D. Gough, O. G. Harlen, P. K. Jimack, M. A. Walkley and T. C. McLeish</i>	CG2. Age-dependent relaxation times of soft colloidal suspensions with tunable glassines. <i>D. van den Ende, E. Purnomo, S. A. Vanapalli and F. Mugele</i>	10:05
BR18. Flow through evolving porous media, specifically aneurysm, using entropic Lattice Boltzmann method. <i>R. M. Thakkar, A. Joshi and S. S. Ansumali</i>	MP42. Planar extensional viscosity of polystyrene and polystyrene/CO ₂ solution. <i>J. Wang, D. F. James and C. B. Park</i>	CG3. Slow dynamics and ageing in soft colloidal dispersions. <i>J. Seth, R. T. Bonnecaze and M. Cloitre</i>	10:25
BR19. Rheometrical studies of blood clot formation by oscillatory shear, thromboelastography, Sonoclot analysis and free oscillation rheometry. <i>K. M. Hawkins, P. A. Evans, M. J. Lawrence, R. L. Williams and R. P. Williams</i>	MP43. Simulations of the industrial casting processes of cementitious materials. <i>N. Roussel</i>	CG4. Ageing under shear: Effect of stress and temperature field. <i>A. Shukla and Y. M. Joshi</i>	10:45
BR20. Rheo-SANS probe of the structure and mechanical properties of fibrin clots. <i>D. C. Pozzo and L. Porcar</i>	MP44. Numerical simulation and application research on the effect of temperature for deep-drawing process for TC1 Ti alloy sheet. <i>S. Yin and Y. Luo</i>	CG5. Rheology of frustrated self-assembly of nanoclay/end-functionalized polybutadiene oligomer gels. <i>X. Wang, H. H. Winter, G. Xue and P. Sun</i>	11:05
BR21. Structure and dynamics of the red blood cell cytoskeletal membrane. <i>P. Cicuta, Y. Yoon and J. Kotar</i>	MP45. Thermoforming troughs: Verifying analytical solutions. <i>K. L. Lieg and A. J. Giacomin</i>	CG6. Soft glassy rheological behavior of smectic liquid crystals in silica gels. <i>R. Bandyopadhyay, D. Liang, R. H. Colby, J. L. Harden and R. L. Leheny</i>	11:25
Bonsai III Collisional Flows and Inelastic Gases	De Anza I RheoOptics/NMR	De Anza II Surfactant Solutions	
GA1. Extended kinetic theory for dense inclined flows. <i>J. T. Jenkins and D. Berzi</i>	EM22. Rheo-NMR of rapidly evolving fluid systems. <i>M. L. Johns</i>	SE25. Multi-mode relaxation behavior of drag-reducing surfactants with excess addition of counterions. <i>H. Watanabe, H. Suzuki, Y. Komoda and H. Usui</i>	9:45
GA2. Fluctuations and response in granular gases: Validity and failure of Einstein relation. <i>A. Baldassarri, A. Puglisi and A. Vulpiani</i>	EM23. Simultaneous oscillatory rheology with dynamic light scattering-echo. <i>G. Petekidis</i>	SE26. Rheology, microstructure and drag reduction of cationic surfactant solutions with mixed counterions. <i>W. Ge, Y. Talmon, D. J. Hart and J. L. Zakin</i>	10:05
GA3. Does the Chapman-Enskog expansion for viscous granular flows converge? <i>A. Santos</i>	EM24. Simultaneous light scattering-rheology measurements for studying stress induced phase transitions. <i>A. Elmoumni, A. J. Franck, M. E. Helgeson, M. Reichert, J. M. McMullan and N. J. Wagner</i>	SE27. Cooperative networks: Viscoelastic synergy in solutions of wormlike micelles and non-ionic polymers. <i>M. W. Liberatore and T. Shenk</i>	10:25
GA4. Segregation in moderately dense granular binary mixtures. <i>V. Garzo</i>	EM25. Exploration of new transient amphiphilic structures by a microfluidic chip-CryoTEM integrated system. <i>A. Tripathi, J. Lee, A. Bose and A. Jha</i>	SE28. Linear and non-linear rheology of soft composite transient networks. <i>L. Ramos, K. Nakaya, H. Tabuteau and C. Ligoure</i>	10:45
GA5. Rheology of dense sheared granular flows. <i>V. Kumaran</i>	EM26. Linear to branched micelles transition: A rheometry and diffusive wave spectroscopy (DWS) study. <i>C. Oelschlaeger and N. Willenbacher</i>	SE29. Extensional rheology Of branched wormlike micelle solutions. <i>M. Chellamuthu and J. P. Rothstein</i>	11:05
GA6. Experimental study of the freely evolving granular gas under microgravity condition. <i>S. Tatsumi, Y. Murayama and M. Sano</i>	EM27. Non-contact method for measurement of surface/interfacial liquid properties with laser manipulation technique. <i>S. Mitani and K. Sakai</i>	SE30. Photorheological fluids made easy: Light-sensitive wormlike micelles based on common, inexpensive surfactants. <i>S. R. Raghavan, A. M. Ketner and R. Kumar</i>	11:25
END			11:45
WEDNESDAY AFTERNOON EXCURSION Times and venues vary, box lunch provided			12:00
WEDNESDAY NIGHT BEACH PARTY 6:30 – 11:00 Pirate's Cove			6:30

8:30	KL9. Elastic turbulence: A random flow without inertia. <i>V. Steinberg</i> (Serra I)		
9:15	COFFEE BREAK (Serra II)		
	San Carlos IV Block Copolymers	San Carlos II Numerical Simulations	San Carlos III Entangled Polymers II
9:45	HS31. Deformation of inclusions and lamellae during melt elongation of blends of a styrene-butadiene block copolymer with polystyrene. <i>U. A. Handge, M. Buschnakowski and G. H. Michler</i>	SG37. Relaxation dynamics of chain fluids during the approach to the glass transition. <i>J. Budzien, T. C. Dotson, J. V. Heffernan, D. B. Adolf and J. D. McCoy</i>	HP58. A critical analysis of using step-strain and extensional rheology to obtain the multi-mode “pom-pom” model parameters for branched high-density polyethylenes. <i>C. D. McGrady, C. W. Seay, D. G. Baird, D. Auhl and T. C. McLeish</i>
10:05	HS32. Using external fields to control the location of nanoparticles in block copolymers: Simulations and experiments. <i>V. Kalra, J. Lee, S. Mendez, F. Escobedo, U. Wiesner and Y. L. Joo</i>	SG38. Linking slow dynamics and local structure in simple models of glass-forming liquids. <i>D. Coslovich and G. Pastore</i>	HP59. Verification of branch point withdrawal in elongational flow of pom-pom polystyrene melt. <i>M. H. Wagner and V. H. Rolón-Garrido</i>
10:25	HS33. Hidden dynamics in nanophase segregated triblock and pentablock copolymer melts. <i>F. I. Roschttardt, J. Embery and T. C. McLeish</i>	SG39. MD simulation of structure and dynamics of glass-forming polymer films. <i>J. Baschnagel, S. Peter and H. Meyer</i>	HP60. Elongational dynamics of narrow molar mass distribution linear and branched polystyrene melts. <i>H. K. Rasmussen, A. L. Skov, J. K. Nielsen, P. Laille and O. Hassager</i>
10:45	HS34. Flow behavior of cubic and cylindrical block copolymer gels. <i>L. M. Walker and T. A. Lafollette</i>	SG40. Molecular dynamics simulations and neutron scattering of melts of poly(ethylene propylene): Bridging the gap between fully atomistic and coarse-grained models. <i>J. Colmenero, R. Perez, F. Alvarez, A. Arbe, W. J. Briels and J. T. Padding</i>	HP61. Decoding the viscoelastic response of polydisperse star/linear polymer blends. <i>L. Balacca, E. van Ruymbeke, S. Coppola, S. Righi and D. Vlassopoulos</i>
11:05	HS35. Rheological and dielectric behavior of dipole-inverted (SIS) _p -type multiblock copolymers: Estimates of bridge/loop fractions for respective I blocks and effect of loops on high extensibility of bridges. <i>Y. Matsumiya and H. Watanabe</i>	SG41. Visco-hyperelastic modelling for amorphous polymers close to their α transition. <i>N. Billon</i>	HP62. Rheology of short-chain branched polyethylene melts under shear: Results from NEMD simulations and comparison with linear and H-shaped analogues. <i>J. M. Kim, C. Baig, B. J. Edwards, D. J. Keffer and V. G. Mavrantzas</i>
11:25		SG42. Diffusion and structural relaxation in sheared glassy systems. <i>F. Varnik</i>	HP63. Effect of multiple branch points on non-linear rheology. <i>K. M. Kirkwood, D. Vlassopoulos and G. Leal</i>
	De Anza III Yielding and Thixotropy III	Portola Suspension Hydrodynamics II	Steinbeck Computational and Multiscale Modeling 3
9:45	SC43. Influence of thixotropy on pressures required during pumping of concrete. <i>D. Feys, R. Verhoeven and G. De Schutter</i>	SC49. Dynamic simulation of colloidal rod suspensions with application to nano-barcodes. <i>B. D. Hoffman and E. Shaqfeh</i>	CF52. Design of a cross-slot flow channel for extensional viscosity measurements. <i>M. A. Alves</i>
10:05	SC44. Transition from a simple yield stress fluid to a thixotropic material. <i>P. Coussot, A. Ragouilliaux, G. Ovarlez and B. Herzhaft</i>	SC50. The dynamic behavior of a concentrated non-Brownian glass fiber suspension in simple shear flow. <i>A. P. Eberle, G. M. Vález-García, D. G. Baird and P. Wapperom</i>	CF53. Shear history effects on extensional flow of non-Newtonian fluids in filament stretching rheometers. <i>M. Yao and G. H. McKinley</i>
10:25	SC45. Comparative study of particle interaction between PMMA particles by Usui's thixotropy model and AFM. <i>T. Ueda, M. Fukui, Y. Komoda and H. Usui</i>	SC51. Rheology of semi-flexible fiber suspensions. <i>M. Keshkar, M.-C. Heuzey and P. J. Carreau</i>	CF54. Boundary layer approximation applied to capillary entry flow of mobile viscoelastic solutions. <i>M. Shirakashi and T. Takahashi</i>
10:45	SC46. Effect of latex particles addition on the rheological behavior of concentrated silica suspensions used as cement pastes model systems. <i>M. Moan, A. Chougnnet and A. Audibert</i>	SC52. Polyamide fibre model system for exploration of the effect of anisotropy on aggregated rod rheology. <i>G. M. Wilkins, P. T. Spicer and M. J. Solomon</i>	CF55. Effect of viscoelasticity on moving contact-line dynamics. <i>P. Yue and J. J. Feng</i>
11:05		SC53. Effects of matrix viscoelasticity on rheology of dilute and semi-dilute suspensions of non-Brownian rigid spheres. <i>N. Grizzuti and R. Pasquino</i>	
11:25		SC54. Particle-wall interaction in a viscoelastic fluid. <i>A. M. Ardekani, R. H. Rangel, J. Garman, D. Dunn-Rankin and D. D. Joseph</i>	
11:45	LUNCH BREAK		

<p>KL10. Residual stresses and viscoelastic deformation of injection molded parts. <i>J. R. Youn</i> (Steinbeck)</p>		8:30
<p>COFFEE BREAK (Serra II)</p>		9:15
<p>Redwood Physiological Fluids II</p>	<p>Colton I-III Particulates</p>	<p>San Carlos I Induced Gels and Attractive Glasses</p>
<p>BR22. Viscosity and lubricity of hyaluronan and synovial fluid. <i>W. E. Krause and J. Liang</i></p>	<p>MP46. Influence of cellulosic nanofillers on the rheological properties of polymer electrolytes. <i>N. El Kissi, A. D'Aprèa, F. Bossard, F. Alloin, J.-Y. Sanchez and A. Dufresne</i></p>	<p>CG7. Flow-enhanced heterogeneity in model colloidal gels. <i>J. Vermant, K. Masschaele, B. Madihala and J. Fransaer</i></p>
<p>BR23. Stress analysis of shear-thinning synovial fluid flow. <i>N. Ashrafi</i></p>	<p>MP47. Shear rheology of suspensions of porous zeolite particles in concentrated polymer solutions. <i>K. O. Olanrewaju and V. Breedveld</i></p>	<p>CG8. Rheology of carbon nanotube suspensions and networks. <i>E. K. Hobbie</i></p>
<p>BR24. Stress communication and filtering in biological layers. <i>M. G. Forest, S. M. Mitran, D. B. Hill, R. Superfine, B. Button and T. Elston</i></p>	<p>MP48. The squeeze flow of yield stress fluids. <i>B. D. Rabideau, C. Lanos and P. Coussot</i></p>	<p>CG9. Flow of attractive colloidal suspensions in microchannels. <i>J. C. Conrad and J. A. Lewis</i></p>
<p>BR25. A numerical model of viscoelastic layer entrainment by airflow in cough. <i>S. M. Mitran</i></p>	<p>MP49. Extrusion criterion for firm cement-based materials. <i>A. Perrot, Y. Melinge, P. Estelle and C. Lanos</i></p>	<p>CG10. Rheological properties and structure of gels generated from stable polymer colloids through high shear in a microchannel. <i>H. Wu, A. Zacccone, M. Lattuada and M. Morbidelli</i></p>
<p>BR26. Development of an interfacial extensional rheometer with applications in model tear films. <i>D. L. Leiske, S. Y. Nishimura and G. G. Fuller</i></p>	<p>MP50. Rheology of carbon black suspensions: Effect of carbon black structure. <i>Y. Aoki</i></p>	<p>CG11. Microstructure, phase behavior and rheology for colloidal suspensions with attractive/repulsive interparticle potentials. <i>M. Bybee and J. Higdon</i></p>
		<p>CG12. Rheology of frustrated colloidal states: Transition from a colloidal gel to an attractive glass. <i>N. Koumakis and G. Petekidis</i></p>
<p>De Anza I Microscopic and Microfluidic Rheometry</p>	<p>De Anza II Emulsions</p>	
<p>EM28. Multi-sample micro-fluidic rheometry. <i>K. B. Migler, D. Moon and A. J. Bur</i></p>	<p>SE31. Irreversible shear-induced elastification of "nanonaise". <i>J. N. Wilking and T. G. Mason</i></p>	9:45
<p>EM29. Microfluidic device with coupled confocal imaging to probe viscoelastic properties of soft biological solids such as bacterial biofilms. <i>D. N. Hohne, J. G. Younger and M. J. Solomon</i></p>	<p>SE32. Microfluidics velocimetry reveals spatial cooperativity in the flow of emulsions. <i>J. Goyon, A. Colin, G. Ovarlez, A. Ajdari and L. Bocquet</i></p>	10:05
<p>EM30. Direct observation of phase transition dynamics in suspensions of soft colloidal hydrogel particles. <i>J. K. Cho and V. Breedveld</i></p>	<p>SE33. Observing Ostwald ripening in a concentrated emulsion using MRI techniques. <i>V. M. Leang, J. H. Walton, S. R. Dungan, R. J. Phillips and R. L. Powell</i></p>	10:25
<p>EM31. Vibrating microcantilevers: Tools for micro-rheology. <i>N. Belmiloud, I. Dufour, A. Colin and L. Nicu</i></p>	<p>SE34. Effect of surfactant monolayer concentration on the measurement of the surface tension of emulsion droplets. <i>C. D. Eggleton</i></p>	10:45
<p>EM32. Micro-cantilever based rheology. <i>R. Motamedi and P. M. Wood-Adams</i></p>	<p>SE35. Relating viscosity changes to phase inversion during the synthesis of tackifier emulsions. <i>D. Song, W. Zhang, E. Melby and R. Gupta</i></p>	11:05
<p>EM33. Detachment and attachment mechanisms of viscoelastic fluids. <i>H. Zeng, Y. Tian, B. Zhao, M. Tirrell and J. Israelachvili</i></p>	<p>SE36. In situ formation and evolution of gas hydrates in water-in-oil emulsions using pressure rheometry. <i>P. J. Rensing, M. W. Liberatore, P. Tonmukayakul, C. A. Koh and E. D. Sloan</i></p>	11:25
<p>LUNCH BREAK</p>		11:45

1:15	KL11. Recent progress in shear banding in complex fluids. <i>P. D. Olmsted</i> (Steinbeck)		
2:00	COFFEE BREAK (Serra II)		
	San Carlos IV Telechelic/Associative Polymers	San Carlos II Modeling	San Carlos III Entangled Polymers II
2:30	HS37. Micro and macrorheology of Pluronic aqueous solutions at the sol-gel transition: Evidence of a phase separation on the micro-scale. <i>E. Rondeau, V. Breedveld and J. J. Cooper-White</i>	SG43. Microscopic theory of the relaxation and mechanical properties of polymer glasses. <i>K. Chen and K. S. Schweizer</i>	HP64. From reactor to rheology in LDPE modeling. <i>D. J. Read, C. Das, M. Kapnistos, J. Den Doelder, I. Vittorias and T. C. McLeish</i>
2:50	HS38. Inter- and intramolecular interactions of associative polymers in solution. <i>R. L. David, M.-H. Wei and J. A. Kornfeld</i>	SG44. Temperature dependence of relaxation time in Adam-Gibbs model for glass-forming liquids: Fluctuation effects. <i>U. Mohanty</i>	HP65. Neutron flow-mapping of controlled-architecture polymer melts. <i>N. Clarke, P. Chambon, E. Deluca, J. Embery, C. Fernyhough, T. D. Gough, R. S. Graham, I. Grillo, L. R. Hutchings, K. Jagannathan, H. Klein and T. C. McLeish</i>
3:10	HS39. Aqueous formulations of associating polymers: Thermo-thinning versus therothickening. <i>D. Hourdet, M. V. Badiger, J. Gadgil, N. Padmanabha Iyer, P. Perrin and P. P. Wadgaonkar</i>	SG45. An Eshelby model of the highly viscous flow. <i>U. Buchenau</i>	HP66. Effect of molecular structure on rheological behavior of nearly monodisperse H-shaped polybutadienes. <i>S. W. Li, X. Chen, R. G. Larson, M. S. Rahman, J. Mays, H. E. Park, J. M. Dealy and M. Maric</i>
3:30	HS40. Shear and elongational flow behavior of inhomogeneous, acrylic thickener solutions. <i>S. Kheirandish, I. Gubaydullin, W. Wohlleben and N. Willenbacher</i>	SG46. Solid-state constitutive modelling of glassy polymers: Coupling the Rolie-Poly equations for melts with anisotropic viscoplastic flow. <i>D. S. De Focatiis, J. Embery and C. P. Buckley</i>	HP67. Rheology and structural changes of hyperbranched polymers: Non-equilibrium molecular dynamics study. <i>T. C. Le, B. D. Todd, P. J. Davis and A. Uhlherr</i>
3:50	HS41. Manipulating hydrophobic interactions in associative polymer solutions via surfactant-cyclodextrin complexation. <i>S. Tabwar, J. Harding and S. Khan</i>	SG47. Case II diffusion and solvent-polymer films drying: A meso-scale model. <i>M. Souche and D. R. Long</i>	HP68. Architecturally complex polymers: Viscoelasticity and extensional rheology. <i>E. van Ruymbeke, M. Kapnistos, E. Muliawan, D. Vlassopoulos, A. Hirao and N. Hadjichristidis</i>
4:10	HS42. Tunable polymer networks based on specific hydrogen bonding motifs. <i>V. Breedveld, K. P. Nair and M. Weck</i>	SG48. Direct atomistic modelling of deformed polymer glasses. <i>A. V. Lyulin and M. A. J. Michels</i>	HP69. Tube theory for non-linear rheology of binary blends of monodisperse polymers. <i>D. J. Read and K. Jagannathan</i>
4:30	HS43. Gel point determination of biopolymer-based semi-IPN hydrogels. <i>S. Choudhary and S. R. Bhatia</i>	SG49. Early stages of plastic behaviour and cavitation in glassy polymers investigated by molecular dynamics simulations. <i>R. Estevez and D. R. Long</i>	HP70. Determination of the terminal longest relaxation time. <i>J.-P. Ibar</i>
4:50	HS44. Linear and nonlinear rheological characterization of temporary networks of telechelic polybutadiene. <i>F. J. Stadler, C. Bailly and W. Pyckhout-Hintzen</i>	SG50. Finite strain viscoplastic modelling of polymer glasses. <i>L. van Breemen, L. Govaert and H. Meijer</i>	HP71. Experimental studies on the relaxation behavior of commercial polymer melts. <i>Y. Fan and H. Liao</i>
5:10		SG51. Quantitative prediction of mechanical performance of polymer products directly from processing conditions. <i>T. Engels, L. Govaert and H. Meijer</i>	HP72. Numerical investigation of effect of stirring blades on mixing efficiency of a planetary kneading mixer with non-Newtonian and viscoplastic materials. <i>P. Yi, Y. Hu and S. Liu</i>
	De Anza III Dynamics and Scattering in Colloids	Portola Multiphase Flows	Steinbeck Hydrodynamics in Confining Media
2:30	SC55. Thermo diffusion of colloids. <i>J. K. Dhont</i>	SC64. A continuum model for structure formation and particle migration in time-dependent flows of concentrated suspensions. <i>K. Yajichi, J. J. Stickel, R. J. Phillips and R. L. Powell</i>	CF58. Numerical modeling of micro fluidics of polymer melts. <i>J. M. Roman Marin and H. K. Rasmussen</i>
2:50	SC56. Hydrodynamic and electrokinetic effects on the dynamics of charge-stabilized colloidal particles. <i>G. Naegele</i>	SC65. Flow of concentrated suspensions in asymmetric bifurcations. <i>C. Xi and N. C. Shapley</i>	CF59. Quantitative characterisation of complex fluids in microfluidics. <i>X.-F. Yuan</i>
3:10	SC57. Particle interaction measurements using laser tweezers optical trapping. <i>T. P. Koehler, R. A. Molecke, C. M. Brotherton, C. J. Brinker and A. M. Grillet</i>	SC66. Flow of dense granular suspensions on an inclined plane. <i>C. Bonnoit, A. Lindner and E. Clement</i>	CF60. Polymer dynamics in shear and Poiseuille flow. <i>R. G. Winkler</i>
3:30	SC58. Tracer diffusion in a soft glassy material. <i>L. Petit, C. Barentin, J. Colombani, C. Ybert, J.-L. Barrat and L. Bocquet</i>	SC67. Shear stress measurements of non-spherical particles in high shear rate flows. <i>E. Koos, H. L. Melamy and C. E. Brennen</i>	CF61. Dynamics and conformation of single polymer chain in a slot coating flow. <i>J. Y. Lee, B. K. Ryu, J. S. Lee, H. W. Jung and J. C. Hyun</i>
3:50	SC59. Restricted defect dynamics in sheared colloidal peanut crystals. <i>S. Gerbode, S. Lee, B. John, A. Wolfgang, C. Liddell, F. Escobedo and I. Cohen</i>	SC68. An experimental investigation of bubble rise characteristics in a crystal suspended non-Newtonian fluid. <i>N. M. S. Hassan, M. M. K. Khan, M. G. Rasul and D. W. Rackemann</i>	CF62. The effects of molecular weight on polymeric fluid filament thinning & drop breakup. <i>P. E. Arratia</i>
4:10	SC60. Nanoparticle stability in concentrated polymer solutions and melts. <i>D. L. Green</i>	SC69. The settling velocity for non-colloidal and colloidal suspensions. <i>B. Dai, K. Rasmussen, A. Graham, A. Redondo and G. Leal</i>	CF63. Evolution of patterns in thin polymer films driven by an electric field: Long-time dynamics and coarsening. <i>N. Wu and W. B. Russel</i>
4:30	SC61. Molecular weight effects on the flow mechanics of a strongly adsorbing polymer nanocomposite. <i>B. J. Anderson and C. F. Zukoski</i>	SC70. Hindered rising in aggregating polydisperse particle suspensions. <i>S. Feng, K. Rasmussen and A. Graham</i>	CF64. Rheo-optic flow-induced crystallization of polyethylene and polypropylene within confined flow geometries. <i>L. Scelsi, D. Auhl, H. Klein and M. R. Mackley</i>
4:50	SC62. Ultra-soft colloids: Non-equilibrium phenomena in sheared bottlebrush polymer solutions. <i>S. Rathgeber, H.-I. Lee, K. Matyjaszewski and E. Di Cola</i>	SC71. Applied rheology in large scale flow system of dilute suspensions with a novel approach. <i>R. Holm, P. Slatter and D. Soderberg</i>	CF65. Boundary layer flow of a FENE dumbbell fluid. <i>L. I. Palade</i>
5:10		SC72. On the stability of shear flows of suspensions. <i>I. A. Frigaard</i>	
5:30	END		
5:45	SOR BUSINESS MEETING De Anza I		
7:00	THURSDAY RECEPTION 7:00 – 8:00 Serra II		
8:00	THURSDAY BANQUET 8:00 – 10:00 Serra I		

KL12. Anomalous rheology of polymer-nanoparticle suspensions. <i>M. E. Mackay</i> (Serra I)			1:15
COFFEE BREAK (Serra II)			2:00
Redwood Rheology of Tissues and Scaffolds	Colton I-III Nanocomposites and Blends	San Carlos I Gels and Glasses	
BR28. Identifying the mechanical behavior of brain tissue in both shear and compression. <i>G. W. Peters, M. Hrapko and H. A. van Dommelen</i>	MP52. The rheology of optically transparent polystyrene blends filled with cross-linked polystyrene beads. <i>T. D. Lord, J. Embery, M. Tassieri, S. A. Butler, P. Hine and M. R. Mackley</i>	CG13. Long-time diffusion and glass transition in hard-sphere colloidal suspensions. <i>A. J. Banchio and J. F. Brady</i>	2:30
BR29. High resolution MR-elastography: A unique tool to study the rheological properties of tissue in vivo and the origin of its multiscale behaviour. <i>B. Larrat, M. Tanter, M. Fink and R. Sinkus</i>	MP53. A study of the rheology, processability and flow induced mesostructures of glass bead filled polystyrene. <i>P. Hine, M. Tassieri and J. Embery</i>	CG14. Constitutive equation for dense colloidal dispersions. <i>M. Fuchs, J. M. Brader, M. E. Cates and T. Voigtmann</i>	2:50
BR30. Spatial variations in the dynamic shear properties of articular cartilage. <i>M. R. Buckley, J. P. Gleghorn, M. J. Farrar, L. J. Bonassar and I. Cohen</i>	MP54. The behavior of particle agglomerate in a Newtonian molten polymer in the dispersion and re-agglomeration processes. <i>Y. Komoda, K. Kameyama, E. Hasegawa, H. Suzuki and H. Usui</i>	CG15. Imaging slip and shear banding in the rheology of hard-sphere colloidal glasses. <i>R. Besseling, P. Ballesta, W. C. Poon, L. Isa and G. Petekidis</i>	3:10
BR31. Morphological and mechanical characterization of reconstituted collagen networks. <i>S. Muenster, T. Koch, P. Kollmannsberger, L. Jawerth, D. Vader, G. Schroeder-Turk and B. Fabry</i>	MP55. Studies for polyblend behaviour in screw extrusion and injection molding processes. <i>K. Wilczynski, Z. Szymaniak and A. Nastaj</i>	CG16. Soft glassy materials: Relaxation and compression under shear. <i>H. Wyss, A. Fernandez-Nieves, J. Mattsson, G. Romeo, M. Muluneh and D. A. Weitz</i>	3:30
BR32. Flow induced orientation of cholesteric collagen, a useful substrate for controlling cell orientation. <i>J. E. Kirkwood and G. G. Fuller</i>	MP56. Polymer rheology of PP, Cl-PP, sulfonated PP and their blends. <i>Y. B. Choi and O. O. Park</i>	CG17. Structure and rheology of dense micelles suspensions formed by hydrophobically end-capped PEO. <i>F. Renou, L. Benyahia and T. Nicolai</i>	3:50
BR33. Rheology of telechelic protein hydrogels. <i>S. E. Fischer, L. Mi, S. Scott and J. L. Harden</i>	MP57. Dendritic-linear blends: Linear viscoelastic properties. <i>J. R. Dorgan, D. M. Knauss and C. M. Roland</i>	CG18. Shear gelation in block copolymer micellar solutions. <i>N. Merlet, E. Di Cola and M. Cloitre</i>	4:10
BR34. Interfacial flow processing of biological molecules. <i>A. J. Goffin and G. G. Fuller</i>	MP58. The rheology and processing of renewable resource polymers. <i>J. D. Conrad and G. M. Harrison</i>	CG19. Intriguing two-time-scale elasticity in arrested phases of lysozyme solutions. <i>T. Gibaud, F. Cardinaux, V. Trappe and P. Schurtenberger</i>	4:30
BR35. Transient extensional rheology of an aqueous gelatin solution: Before and during gelation. <i>A. S. Lubansky, D. J. Curtis, R. P. Williams and D. Deganello</i>	MP59. Deformation and rheology of co-continuous blends. <i>G. L. Batch, P. Lee, C. R. Lopez-Barron and C. Macosko</i>	CG20. Microscopic dynamics of shear recovery in nanoparticle depletion gels. <i>B. Chung, R. Bandyopadhyay, D. Liang, S. Ramakrishnan, C. F. Zukoski, R. L. Leheny and J. L. Harden</i>	4:50
	MP60. Preparation and rheological properties of high impact polystyrene/organoclay nanocomposites. <i>S. J. Hwang, B. C. Kim and S. J. Lee</i>	CG21. Network induced relaxation dynamics in colloidal gels. <i>E. Del Gado and W. Kob</i>	5:10
Bonsai III Modeling and Expt. in Quasi-Static Limit	De Anza I Extreme Rheology	De Anza II Liquid-Liquid Systems and Blends	
GA7. Dry granular flow at the quasi-static limit. <i>M. R. Kuhn</i>	EM34. The high normal force partitioned plate rheometer MTR 25. <i>T. Schweizer, J. Hostettler and F. Mettler</i>	SE37. Deformation and relaxation of PMMA/PS and PMMA/PSOX blends. <i>J. Silva, A. V. Machado, P. Moldenaers and M. João</i>	2:30
GA8. Fluid injection into granular media under confinement. <i>H. Huang and R. Wu</i>	EM35. Determination of normal stress in micrometer thin films. <i>S. J. Baik, P. Moldenaers and C. Clasen</i>	SE38. Numerical simulation of the deformation and break-up of droplets subjected to complex, time dependent strain rates. <i>J. R. Waldmeyer, M. R. Mackley, M. Renardy and Y. Renardy</i>	2:50
GA9. Using Newton's cradle to explore wetted, 3-particle collisions. <i>C. E. Donahue, C. M. Hrenya, G. G. Joseph, R. H. Davis, K. J. Nakagawa and A. P. Zelinskaya</i>	EM36. A flexible platform for tribological measurements on a rheometer. <i>P. Hoyer and J. Laeuger</i>	SE39. Universal retraction process of a droplet shape after a large strain jump. <i>L. Benyahia and S. Assighaou</i>	3:10
GA10. Rheophysical investigation in concentrated particle suspensions. <i>S. Wiederseiner, C. Ancey, M. Rentschler and N. Andreini</i>	EM37. From rheology to tribology: Multiscale dynamics of biofluids, food emulsions and soft matter. <i>J. R. Stokes, J. H. Bongaerts, G. A. Davies, D. Rossetti and G. Yakubov</i>	SE40. Evidence of droplet coalescence in extensional flow using microfluidic devices. <i>D. Z. Gunes, X. Clain and A. S. Burbidge</i>	3:30
GA11. Densification of a 3D granular bed by horizontal vibrations. <i>A. Raihane, O. Bonnefoy, G. Thomas, J. m. Chaix and J. L. Gelet</i>	EM38. Novel miniature-scale mixing device for deformable materials. <i>M. Sentmanat, S. G. Hatzikiriakos and E. Muliawan</i>	SE41. The effect of interfacial slip on drop coalescence. <i>A. Roy, H. D. Cenicerros and G. Leal</i>	3:50
GA12. Initiation of submarine granular avalanches: Role of the initial volume fraction. <i>M. Pailha, O. Pouliquen and M. Nicolas</i>	EM39. Development and testing of measurement equipment to determine the viscoelastic behaviour of polymer melts at high pressure. <i>M. Krebs and O. Wuensch</i>	SE42. Morphology and rheology of model immiscible blends with interfacial crosslinking. <i>C. DeLeo and S. Velankar</i>	4:10
GA13. Dynamics, packing porosity, and conformation variations of granular chains. <i>X. Zhang and A. Shen</i>	EM40. Capillary rheometry of low viscosity fluids. <i>E. G. Barroso, F. M. Duarte, M. Couto and J. M. Maia</i>	SE43. Effects of partial miscibility on drop-wall and drop-drop interactions. <i>C. Tufano, G. W. Peters, H. Meijer and P. D. Anderson</i>	4:30
GA14. Triggering stick-slip motion in granular shearing. <i>A. Baldassarri, F. Dalton, A. Petri and S. Zapperi</i>	EM41. The effects of stressing rate on measurements of the cavitation threshold of monograde lubricants by pulses of tension. <i>R. L. Williams, R. P. Williams and H. H. Chan</i>		4:50
GA15. Dense granular flows: Rheology and segregation. <i>D. Khakhar</i>			5:10
END			5:30
SOR BUSINESS MEETING De Anza I			5:45
THURSDAY RECEPTION 7:00 – 8:00 Serra II			7:00
THURSDAY BANQUET 8:00 – 10:00 Serra I			8:00

8:30	KL13. A new look at stress relaxation in melts of unlinked rings. <i>S. T. Milner</i> (Serra I)		
9:15	COFFEE BREAK		
	San Carlos IV Telechelic/Associative Polymers	San Carlos II Polymer Viscoelasticity	San Carlos III Entangled Polymers I
9:45	HS46. Rheology of telechelic polymers assembled with rare earth and metal elements. <i>M. Romanowich, M. E. Mackay, J. Kumpfer, J. Fox and S. J. Rowan</i>	SG52. A Simplified Potential Energy Clock (SPEC) model for predicting the thermomechanical behavior of glassy polymers: Part I. <i>D. B. Adolf and R. S. Chambers</i>	HP73. Blob-spring model for the dynamics of ring polymer in obstacle environment. <i>A. Lele, B. Iyer and V. Juvekar</i>
10:05	HS47. Rheology of ionomers. <i>R. A. Weiss</i>	SG53. Validation of a Simplified Potential Energy Clock (SPEC) model for predicting the thermomechanical behavior of glassy polymers: Part II. <i>R. S. Chambers and D. B. Adolf</i>	HP74. Viscoelastic response of cyclic polyoctenamer. <i>G. B. McKenna, M. Hu, X. Yan, R. H. Grubbs and J. A. Kornfield</i>
10:25	HS48. Viscoelastic behavior of supramolecular polymers formed by a bisurea type compound in apolar solvents. <i>T. Shikata, T. Nishida and L. Buteiller</i>	SG54. The strain accumulation process in periodically loaded polymer based products due to viscoelastic behavior of polymers. <i>I. Emri, B. Zupancic, U. Florjancic and A. Nikonov</i>	HP75. Viscoelastic properties of ring-shaped polystyrenes. <i>A. Takano, Y. Ohta, S. Tokuno, D. Kawaguchi, Y. Takahashi and Y. Matsushita</i>
10:45	HS49. Self-assembly and gelation of benzylidene-D-sorbitol derivative under geometric confinement. <i>W. Chen, C. Lee and A. Shen</i>	SG55. Effects of strain on the long term rheology of filled viscoelastic solids. <i>C. C. White, D. Hunston and K. T. Tan</i>	HP76. Dynamics of ring-linear blends. <i>S. Shanbhag</i>
11:05	HS50. Using colloidal suspensions to investigate epitaxial growth phenomena. <i>I. Cohen, R. Ganapathy and M. R. Buckley</i>	SG56. Molecular mobility of soft segment of polyurethane elastomers under elongation. <i>K. Kojio and M. Furukawa</i>	HP77. Dynamics of partially hydrogen-bonded polymer chains. <i>O. Urakawa, H. Ikuta, M. Fujita, T. Shikata and T. Inoue</i>
11:25	HS51. Influence of molecular structure on the gelation behaviour of Fmoc-dipeptides. <i>D. J. Adams, L. Mullen and W. J. Frith</i>		HP78. Start-up and transient flow effects from molecular weight distribution. <i>T. Borg and E. J. Pääkkönen</i>
	De Anza III Field Effects: ER and MR Fluids	Portola Colloids, Nanotubes and Nanocomposites	Steinbeck Computational and Multiscale Modeling 4
9:45	SC73. Direct numerical simulation of three-dimensional flows with suspended paramagnetic particles. <i>T. Kang, M. A. Hulsen, J. den Toonder, P. D. Anderson and H. Meijer</i>	SC79. Extensional rheology of single walled carbon nanotubes in liquids. <i>D. A. Nguyen, B. Dan, N. G. Parra-Vasquez, M. Pasquali, J. R. Prakash and T. Sridhar</i>	CF67. Operator-splitting schemes for the flows of compressible viscoplastic fluids. <i>R. R. Huilgol and Z. You</i>
10:05	SC74. Viscosity of a suspension with internal rotations. <i>E. Lemaire, L. Lobry, N. Pannacci and F. Peters</i>	SC80. A model system for rheological simulation: Silica-polydimethylsiloxane colloids in low molecular weight silicon oil. <i>N. S. Bell, M. Piech and R. Schunk</i>	CF68. A 1.5D numerical model for weakly compressible viscoplastic and thixotropic flows: Application to the start-up of waxy crude oils in pipeline. <i>G. Vinay and A. Wachs</i>
10:25	SC75. The electrorheological effect in suspensions of different conductivity under A.C. electric field. <i>M. Muñoz, F. Bautista and O. Manero</i>	SC81. The rheology of carbon nanotube (CNT) suspensions: Experiments and modelling. <i>A. W. Ma, F. Chinesta and M. R. Mackley</i>	CF69. A constitutive model for flow-induced anisotropic behavior of viscoelastic complex fluids. <i>H. Zhu and D. De Kee</i>
10:45	SC76. Electrokinetics over liquid/liquid interfaces. <i>A. J. Pascall and T. M. Squires</i>	SC82. Rheology and phase behavior of single-walled carbon nanotubes in acid. <i>M. J. Green, N. G. Parra-Vasquez, N. Behabu, V. A. Davis and M. Pasquali</i>	CF70. Diffusion of colloidal spheres in rod-networks: Hydrodynamic screening and electrostatic interactions. <i>K. Kang, J. K. Dhont, A. Wilk and A. Patkowski</i>
11:05	SC77. The response of elongated particles under shear and electric fields. <i>Y. K. Kor and H. See</i>	SC83. Rheological behavior of polyamide-6 based nanocomposites: Experimental study and modeling. <i>M. Sepehr, K. K. Kabanemi and J.-F. Hétu</i>	CF71. Colloidal asphaltene deposition and aggregation in capillary flow: Experiments and mesoscopic simulation. <i>E. S. Boek, H. K. Ladva, J. T. Padding and J. P. Crawshaw</i>
11:25	SC78. Electrorheological suspension of core/shell structured polymeric microspheres with polyaniline and its shear stress analysis. <i>F. Fang and H. J. Choi</i>		
11:45	BREAK		
12:00	PL2. Non-equilibrium mechanics of active gels and living cells. <i>F. MacKintosh</i> (Serra I)		
1:00	FRIDAY CLOSING RECEPTION/LUNCH 1:00 – 3:00 Serra II		

KL14. A geophysical perspective of grain-fluid flows. <i>R. M. Iverson</i> (Steinbeck)		8:30
COFFEE BREAK		9:15
Redwood Cell Mechanics	Colton I-III Stability and Crystallization	San Carlos I Yielding
BR37. Correlation between extracellular matrix (ECM) stiffness, intracellular viscoelastic properties, and invasive ability of cancer cells. <i>E. L. Baker, M. H. Zaman and R. T. Bonnecaze</i>	MP61. In-situ structural characterization by SAXS and flow properties of colloidal suspensions during crossflow ultrafiltration. <i>F. Pignon, C. David, A. Magnin and M. Sztucki</i>	CG22. Aging and yielding for colloidal suspension by MRI velocimetry. <i>A. Ragouilliaux, B. Herzhaft, G. Ovarlez and P. Coussot</i>
BR38. The analysis of microrheological data in non-equilibrium, motor-activated F-actin networks. <i>A. J. Levine and F. MacKintosh</i>	MP62. Stability of the annular Poiseuille flow of a Newtonian liquid with slip along the walls. <i>M. Chatzimina, G. C. Georgiou, K. Housiadas and S. G. Hatzikiriakos</i>	CG23. Yielding and flow of carbon black gels. <i>T. Gibaud, N. Taberlet and S. Manneville</i>
BR39. Response and fluctuations in active bacterial bath. <i>A. Lau</i>	MP63. Stability of shear-extensional flow in film extrusion of liquid crystalline polymer-anisotropic viscoelastic fluid. <i>S. Han</i>	CG24. Yielding and aging in sheared lyotropic phases of interconnected bilayers. <i>Y. Auffret, D. D. Roux, D. E. Dunstan, N. El Kissi and F. Caton</i>
BR40. A particle-based model for cell mechanics: From microstructures to rheology. <i>S. M. Hosseini and J. J. Feng</i>	MP64. Precursors, crystallization and melting in sheared bimodal HDPE melts. <i>L. Balzano, G. W. Peters, N. Kukalyekar and S. Rastogi</i>	CG25. Motion and shape of bubbles rising through a yield-stress gel. <i>J. R. de Bruyn and D. Sikorski</i>
BR41. Dissipative particle dynamics simulation of polymer- and cell-wall depletion in micro-channels. <i>D. A. Fedosov, B. Caswell and G. E. Karniadakis</i>		CG26. Gravitary free surface flows used as a rheometrical tool: The case of viscoplastic fluids. <i>A. Ghemmour, G. Chambon, M. Naaim and A. Magnin</i>
		CG27. Influence of the shear stress applied during the flow stoppage and the rest on the mechanical properties of thixotropic suspensions. <i>G. Ovarlez, X. Chateau and N. Roussel</i>
Bonsai III Advances in Simulation Techniques	De Anza I Squeeze Flow Rheometry	
GA16. A dissipative Coulomb model for dense granular flows. <i>R. Artoni, A. C. Santomaso and P. Canu</i>	EM43. Linear viscoelasticity on short timescales: Real-frequency mechanical spectroscopy up to kHz range. <i>T. Remmler, R. Tweedie and W. Pechhold</i>	9:45
GA17. Direct numerical simulation of polygonal particles sedimentation with collisions. <i>A. Wachs, R. Chhabra and C. Dan</i>	EM44. A continuous lubricated squeezing flow technique to study the rheological behavior of polymer melts in equibiaxial elongational flow. <i>D. C. Venerus, T. Guadarrama-Medina and T.-Y. Shiu</i>	10:05
GA18. Shear flow of sphere packings in the geometric limit. <i>P.-E. Peyneau and J.-N. Roux</i>	EM45. Novel instrument for parallel superposition measurements. <i>S. Dinser, K. Hausler and J. Dual</i>	10:25
GA19. Flow and blockage of concentrated granular suspensions. <i>A. Kaci, G. Racineux and M. Chaouche</i>	EM46. Investigation and removal of gap dependence in squeeze film rheometry: A broadband spectral approach. <i>H. Esmonde</i>	10:45
	EM47. Characterisation of large deformation behaviour of starch gels using compression and indentation techniques. <i>C. Gamonpilas, M. Charalambides, G. J. Williams, P. J. Dooling and S. R. Gibbon</i>	11:05
	EM48. Characterization theory and technique for polymer melt under the superimposed vibration. <i>Y.-J. Liu, X.-G. Li and Y.-G. Huang</i>	11:25
BREAK		11:45
PL2. Non-equilibrium mechanics of active gels and living cells. <i>F. MacKintosh</i> (Serra I)		12:00
FRIDAY CLOSING RECEPTION/LUNCH 1:00 – 3:00 Serra II		1:00

Poster Session

Tuesday 6:00 pm – 9:00 pm Serra I Reception 7:00 – 9:30 in De Anza I

Materials Processing

- PO1.** Characterising microstructured materials using a capillary rheometer. *C. I. Hicks, E. Y. Arabo and H. See*
- PO2.** Sensitivity analysis of two-dimensional viscoelastic film casting process. *S. W. Choi, D. M. Shin, J. S. Lee, H. W. Jung and J. C. Hyun*
- PO3.** Stability of multilayer film blowing process. *D. M. Shin, S. W. Choi, J. S. Lee, H. W. Jung and J. C. Hyun*
- PO4.** Friction factors for flow of drag reducing solutions of micellar surfactant additives in straight circular pipes and conventional globe valves. *M. Dostal, J. Sestak and V. Mik*
- PO6.** Effect of organoclay dispersion on the barrier properties of polypropylene/organoclay nanocomposites in film blowing process. *H. T. Lim, K. H. Ahn and S. J. Lee*
- PO7.** Composites of polystyrene/wood fiber: Processing effect to creep resistance. *L. Romero, M. E. Mendoza, A. Gaspar, S. G. Flores and R. Ibarra*
- PO8.** Some unusual rheological responses of poly(vinylidene fluoride-co-hexafluoropropylene) solutions in dimethyl acetamide and their effects on the electrospinning process. *J. S. Seo, K. H. Lee and B. C. Kim*
- PO9.** Uniaxial extensional flow and rheological behaviour under large amplitude oscillatory shear as tools to understand and predict the development of melt flow instabilities during extrusion. *S. Filipe, E. Utenthaler, B. Knogler, K. Hofstadler and J. Reussner*
- PO10.** Relationship between neck-in and viscoelasticity in an extrusion lamination process. *S. Shiromoto, M. Tsutsubuchi, Y. Togawa and T. Kajiwara*
- PO11.** Surface migration of highly-branched polymeric additives. *Z. Qian, V. S. Minnikanti and L. A. Archer*
- PO12.** Relevant aspects in modeling of micro-injection molding. *T. Nguyen-Chung, G. Jüttner, T. Pham and G. Mennig*
- PO13.** Dynamic characteristics of plug-assist thermoforming process. *H. Hosseini, A. Mehrabani-Zeinabad and N. Ghafari*
- PO14.** Pressure/flow performance of viscoelastic polymeric melts in cylindrical channels. *H. Hosseini, B. V. Berdyshev and B. Shirkavand-Hadavand*

Complex Flows

- PO16.** Viscoelastic flows in journal bearings. *K. Liu and D. Grecov*
- PO17.** Shear banding: counter rotation to produce symmetric stratification. *X. Li, P. E. Boukany and S.-Q. Wang*
- PO18.** Analysis of the edge fracture for several polymer melts. *R. Vogt, K. Mattes and C. Friedrich*
- PO19.** Viscoelastic fluid flow through 3D square-square expansions. *P. C. Sousa, P. M. Coelho, M. N. Oliveira and M. A. Alves*
- PO20.** Response of viscoelastic fluids under combined oscillatory squeezing and shear flow. *J. H. Kim, J. H. Sung, J. G. Nam, K. H. Ahn and S. J. Lee*
- PO21.** Flow visualization and numerical simulation of viscoplastic fluid displacements in eccentric annuli. *D. Q. Nguyen, T. Deawwanich, P. Tonmukayakul, M. Savery and W. Chin*
- PO22.** Turbulent pipe flow of “rod-like” polymer solutions. *A. Japper-Jaafar, M. P. Escudier and R. J. Poole*
- PO23.** Re-entrant corner flows of Oldroyd-B fluids in the natural stress basis. *J. D. Evans and A. T. O’Byrne*
- PO24.** Evaluation of negative wake criteria in an associative polymer. *A. J. Mendoza-Fuentes and O. Manero*
- PO25.** Re-entrant corner flows of PTT fluids. *J. D. Evans and D. N. Sibley*
- PO26.** Investigation of vortical structures in bifurcations. *D. D. Broboana, S. Bernad and C. M. Balan*
- PO27.** Extended separated representation of micro-macro models related to complex fluid flows. *F. Chinesta, B. Mokdad, E. Pruliere, A. Ammar and N. El Kissi*
- PO28.** Time dependent flow patterns in Couette-Taylor motion of pure viscous and weakly elastic polymer solutions. *R. Kadar and C. Balan*
- PO29.** Liquid-liquid displacement flows in a Hele-Shaw cell including viscoplastic effects. *P. R. de Souza Mendes and P. R. Varges*
- PO30.** Nonlinear pattern formation in viscoelastic Taylor-Couette flow. *D. Thomas, B. Khomami and R. Sureshkumar*
- PO31.** Derivation of a shear band initiation criterion in nonlinear viscoelastic flow. *I. Dobovsek*
- PO32.** Onset of vortex shedding from a circular cylinder settling in a power-law fluid. *A. Wach and R. Chhabra*
- PO33.** On the accuracy of extensional rheological measurements using capillary thinning procedures. *A. S. Lubansky, H. Matallah, S. S. Krishnan, M. F. Webster and R. P. Williams*
- PO34.** Stability of shear-thickening flow between rotating cylinders. *N. Ashrafi*

Homogeneous Polymeric Systems

- PO36.** Structure-property relationships of LDPE. *J. J. Wang*
- PO37.** Non-linear step strain of branched polymer melts. *D. M. Hoyle, O. G. Harlen, T. C. McLeish and D. Auhl*
- PO38.** Is there elastic yielding in absence of edge effect? *X. Li, S. Ravindranath and S.-Q. Wang*
- PO39.** Hierarchical relaxation in star polymer melts. *M. Zamponi, A. Wischniewski, M. Monkenbusch, W. Pyckhout-Hintzen, L. Willner, D. Richter and G. Kali*
- PO40.** Critical experimental techniques in broad frequency range characterization of monodisperse polybutadiene (PBD). *S. W. Li, H. E. Park and J. M. Dealy*
- PO41.** Shear modification and elongational behavior of two types of low-density polyethylene melts with different long chain branching. *K. Okamoto, M. Yamaguchi and M. Takahashi*
- PO42.** Kinetics of shear-induced crystallization: Effects of shear rate and strain. *J. S. Tiang, H. E. Park and J. M. Dealy*
- PO43.** Chemical recycling of polyethylene terephthalate (PET). *F. Costa, A. V. Machado and J. M. Maia*
- PO44.** Interdiffusion of ring-shaped polystyrenes with high molecular weights. *D. Kawaguchi, A. Takano, K. Tanaka, T. Nagamura, N. Torikai and Y. Matsushita*
- PO45.** Effective pairwise potentials in entangled polymer networks. *K. Horio, Y. Masubuchi, H. Watanabe, R. Khaliullin and J. D. Schieber*
- PO46.** Effects of propylene glycol on the physical properties of poly(vinyl alcohol) solutions and films. *J. H. Lim, Y. H. Cho and B. C. Kim*
- PO47.** Toward a new universal model for polymer rheology based on group interactions. *P. J. Halley, T. M. Nicholson and N. Altmann*
- PO48.** Descriptions on the thixotropy-loop tests by the simplified Mewis-Denn model. *S. X. Huang*

- PO49. Rheological modeling of commercial polystyrene resins. *J. D. Guzman and M. A. Mangnus*
- PO50. Rheological and ultrasonic monitoring of the in-situ polymerization of cyclic butylene terephthalate. *A. Derdouri, J. Tatibouët and P. Sammut*
- PO51. Elastic and viscous properties of linear and long-chain branched ethene/ α -olefin copolymers in the terminal regime. *F. J. Stadler and H. Münstedt*

Heterogeneous and Self Assembled Polymeric Systems

- PO54. Shear induced chain migration in flowing polymeric solutions: A molecular dynamics study. *S. Kohale and R. Khare*
- PO55. Self-assembly of benzylidene-D-sorbitol derivative under geometric confinement. *W. Chen, C. Lee and A. Shen*
- PO56. Blend dynamics in interacting miscible polymer blends. *A. N. Gaikwad and T. P. Lodge*
- PO57. Component dynamics in polystyrene/4-pentyl-4'-cyanobiphenyl blend. *S. Nobukawa, O. Urakawa, T. Shikata and T. Inoue*
- PO58. Rheology and adhesive performance of soft polymer networks. *M. K. Jensen, A. Bach, O. Hassager and A. L. Skov*
- PO59. Spectacular transient effects in measuring the ultra-high viscosity of a chlorinated biphenyl. *R. S. Moore and C. Gieniewski*
- PO60. Viscoelastic behavior of aqueous solutions of hydrophobically-modified water-soluble polypeptides. *K. Inomata, T. Takai, H. Sugimoto and E. Nakanishi*
- PO61. Rheological properties of aqueous solutions of sulfonated poly(ether ether ketone), polyetherimide and polysulfone. *J. S. Zaidi and L. A. Hussein*
- PO62. Microencapsulation by coacervation: Designing rheological properties of the shell by employing polymer mixture-ionic surfactant interactions. *J. M. Katona, V. J. Sovilj and L. B. Petrovic*
- PO63. Rheology and self-assembly of heterogeneous methylcellulose. *P. Fairclough, A. J. Ryan, Y. Hao and O. Kelly*
- PO64. Polyurea segmented multi-block copolymers: Structure and dynamics. *J. A. Pathak, C. M. Roland, D. Ho, E. K. Lin, M. Vukmir, T. H. Epps and P. H. Mott*
- PO65. Micro and macrorheology of cross-linked Pluronic hydrogels: Anomalous behavior at the cmc. *E. Rondeau, V. Breedveld and J. J. Cooper-White*
- PO66. Characterization of disentangled polymers obtained from solutions. *A. Allal and J.-P. Ibar*
- PO67. Gelation of regenerated fibroin solution. *S. Nagarkar, A. Lele, C. Chassenieux, D. Durand and T. Nicolai*
- PO68. On the role of chain defects in governing the microstructure and rheology of thermoplastic polyurethanes. *V. Joshi and A. Lele*
- PO69. Effect of hyaluronic acid on the self assembling behaviour of PEO-PPO copolymers in aqueous solution. *L. Mayol, A. Borzacchiello, F. Quaglia, M. I. La Rotonda and L. Ambrosio*

Bio-Rheology

- PO71. Time dependency of non-linear rheological properties of colloidal gels in biopolymer solutions. *P. Pimenta, S. Pilch and J. G. Masters*
- PO72. Tuning of tissue engineering hydrogel material properties. *J. Vanderhooft, M. Alcoutlabi, J. J. Magda and G. D. Prestwich*
- PO73. Preparation and shear modulus of polyacrylamide gels as nerve cell culture. *C. Perrault, D. Juncker and H. E. Park*
- PO74. Effect of DNA sequence and DNA chain conformation on DNA assisted dispersion of single wall carbon nanotubes in aqueous medium. *S. S. Rahatekar, R. Hagenmuller, J. A. Fagan and J. W. Gilman*
- PO75. Cell attachment on new fibrous PET structures for vascular grafts under controlled shear stress. *R. Gendron, A. Ajji, J. Dufour, S. Dimitrievska and M. N. Bureau*
- PO76. Designed textures from plant material. *P. Lopez-Sanchez, S. Schumm and M. Langton*
- PO77. Rheology and gelation temperature of aqueous gelatin and sodium alginate solutions. *V. Florián-Algarín and A. Acevedo-Rullán*
- PO78. Rheological studies of polylactide degradation. *Y. V. Yuryev and P. M. Wood-Adams*
- PO79. Characterizing the non-linear rheology of biopolymer networks using inertio-elastic oscillations. *N. Y. Yao, R. J. Larsen and D. A. Weitz*
- PO80. Superdiffusive motion with fractional power-law exponents. *M. Sajitz-Hermstein, C. Metzner, C. Raupach and B. Fabry*
- PO81. The measurement of thickened liquids used for the management of dysphagia. *T. M. Nicholson, P. J. Torley and J. Cichero*
- PO82. Characterizing microstructure of biofilm formed from *Pseudomonas aeruginosa* using particle tracking microrheology. *H. Kang, K. H. Ahn and S. J. Lee*
- PO83. Alkali and acid solubilization effects on rheological properties of horse mackerel muscle proteins. *L. Campo-Deaño and C. A. Tovar*
- PO84. Blended solutions of celluloses from different biological origins. *D. Tatsumi, N. Tamai, M. Yanagisawa and T. Matsumoto*
- PO85. Winged helix transcription factor CPC1 controls fungal arthrospore formation in *Acremonium chrysogenum*. *H. Y. Shin, J. Kim, J. Y. Lee and S. W. Kim*
- PO86. Ocean rheology and plankton biology. *I. R. Jenkinson*
- PO87. Flow-induced morphologies of highly concentrated collagen solutions. *M.-K. Sommer, J. E. Kirkwood, and G. G. Fuller*

Suspensions and Colloids

- PO89. Deformable particles in dilute suspensions: A numerical investigation of particle segregation and the depleted layer. *S. Hashmi, E. Dufresne and M. Loewenberg*
- PO90. The application of melt linear viscoelastic properties in determining the role of organoclay's modifier on microstructure development of PP/PA6/organoclay nanocomposites. *M. Dini and H. Nazockdast*
- PO91. The bulk viscosity of concentrated suspensions. *M. Swaroop and J. F. Brady*
- PO92. Rheological influence of synthetic zeolite on cement pastes. *N. Baldino, D. Gabriele, P. Frontera, F. Crea and B. de Cindio*
- PO93. Electrical dependence on dynamic strain for CB/SEBS and GP/SEBS composites. *I. A. Estrada, A. Díaz, M. E. Mendoza and R. Ibarra*
- PO94. Influence of water content on the flow behavior of PVC Plastisols. *B. Hochstein and N. Willenbacher*
- PO95. Rheology of nanoparticles suspensions in hydroxypropylcellulose (HPC) solutions. *S. L. Avilés-Barreto and A. Acevedo-Rullán*
- PO96. Direct visualization of structural rearrangements in sheared confined colloidal suspensions. *P. S. Sarangapani and Y. E. Zhu*
- PO97. Strings microstructures in sheared suspensions of spheres in viscoelastic liquids. *G. D'Avino, T. Tuccillo, M. A. Hulsen, F. Greco and P.-L. Maffettone*
- PO98. Extensional flow and electric conductivity of carbon nanotube dispersed system. *Y. Okada, H. Mizunuma and H. Obara*
- PO99. Rheological properties of binary suspensions TiO₂/Al₂O₃: Effect of ionic strength. *A. I. Gómez-Merino, F. J. Rubio-Hernández, J. F. Velázquez-Navarro and F. J. Galindo-Rosales*
- PO100. Simulation of particulate suspension system under electric field. *S. Choi, S. Song, K. H. Ahn and S. J. Lee*
- PO101. Shear induced brush deformation of soft colloids: Hybrid mesoscale simulations and Rheo-SANS experiments. *J. Stellbrink*

- PO102.** Rheological properties and transfer phenomena of nanofluids. *K.-M. Jung and S. H. Kim*
- PO103.** Impact and spreading of a particle-laden drop on the solid substrate. *H. J. Jeong, W. R. Hwang and C. Kim*
- PO104.** 3D Monte Carlo simulations of internal aggregate structures in a colloidal dispersion composed of rod-like particles for application of large magneto-rheological effect. *A. Satoh*
- PO105.** SAXS studies on the agglomerative silica suspension under shear. *L. Li*
- PO106.** The concentration effect on the rheological behavior of bauxite slurry. *C. R. Nascimento and V. A. Calado*
- PO107.** Rheological behavior of an epoxy resin with hollow glass microspheres. *C. C. Costa, V. A. Calado and F. W. Tavares*
- PO108.** Spatio-temporal behavior of dipolar nano-rods under shear: Shear induced polarization. *S. Heidenreich, S. Hess and S. L. Klapp*
- PO109.** Thermal conductivity and rheological properties of nanofluids. *S. Kim and C. Kim*
- PO110.** Yielding in concentrated suspensions of plate-like (kaolinite) particle. *W. J. Han, P. J. Scales, K. H. Ahn and S. J. Lee*
- PO111.** Interactions between aggregated particles in Stokes flow. *A. Weliwita and H. J. Wilson*
- PO112.** Dynamic and steady shear properties of reversibly cross-linked guar solutions and their effects on particle settling behavior. *P. Tonmukayakul, J. E. Bryant, M. S. Talbot and J. F. Morris*
- PO113.** Rheological behavior of silica suspensions in aqueous solutions of associating polymer. *Y. Saito, H. Ogura and Y. Otsubo*
- PO114.** Electrorheology of poly(ethylene glycol) suspension. *Y. Hirose and Y. Otsubo*
- PO115.** Force induced microdiffusivity of colloidal particles. *R. N. Zia and J. F. Brady*
- PO116.** Structure, dynamics, and rheology of biphasic colloidal mixtures. *A. Mohraz, S. K. Rhodes, R. B. Rao, E. Weeks and J. A. Lewis*
- PO117.** Rheological/morphological study of PS/CNT nanocomposite electrospun fibers. *S. Mazinani, A. Aji and C. Dubois*
- PO118.** Rheology modification in mixed shape colloidal dispersions. *A. J. ten Brinke, L. Bailey, H. N. Lekkerkerker and G. C. Maitland*
- PO119.** Effect of composite ceramic paste velocity profile on extrudate microstructure. *J. Andertova and F. Rieger*
- PO120.** Enzo-rheology: Investigations of high-solids biomass slurries for bio-refinery applications. *J. S. Knutsen and M. W. Liberatore*
- PO121.** Shear induced alignment of multi-walled carbon nanotube dispersions via small angle x-ray scattering. *S. Pujari, W. R. Burghardt, S. S. Rahatekar, A. H. Windle and K. K. Koziol*
- PO122.** Rheology measurements of a biomass slurry: An inter-laboratory study. *J. J. Stickel, M. W. Liberatore, D. W. Bousfield and D. J. Klingenberg*
- PO123.** Stress relaxation of carbon black filled rubbers under various deformation modes. *T. Tada, T. Mabuchi, K. Muraoka, K. Urayama and T. Takigawa*
- PO124.** Development and validation of a mixed rheological model for magneto-rheological suspensions. *D. Susan-Resiga*
- PO125.** Relationship between the rheological and the adhesive properties of cementitious pastes. *R. Bouras, A. Kaci and M. Chaouche*
- PO126.** Identification method of the tribological properties of concentrated complex fluids. *Y. Melinge, A. Perrot, P. Estelle and C. Lanos*
- PO127.** Rheology of polyurethane nanocomposite films containing different nanofillers prepared from homogeneous aqueous solution polymerization. *S. A. Madbouly and J. U. Otaigbe*
- PO128.** Onset of the rheological fluid behavior in high concentrated suspensions. *R. Kadar and C. Balan*
- PO129.** Coupling between contact line movement and evaporation-induced coating in colloids suspensions. *H. Bodiguel, F. Doumenc and B. Guerrier*
- PO130.** Squeezing flow of suspensions: Flow regime evaluation from energy approach. *P. Estelle, Y. Melinge, C. Lanos and A. Perrot*
- PO131.** Low shear viscosity of concentrated suspensions in salt-free media: Water hydrolysis and CO₂ influence. *E. Ruiz-Reina and F. Carrique*
- PO132.** The structure control of catalyst layer for polymer electrolyte fuel cell by the preparation condition of catalyst particle suspension. *H. Usui, K. Okabayashi, Y. Komoda, H. Nishimura, M. Hiromitsu and T. Ooboshi*

Surfactants, Emulsions and Foams

- PO135.** Multiscale modeling of lamellar mesophases. *V. Kumaran*
- PO136.** Numerical modeling of ferrofluid droplets in magnetic fields. *S. Afkhami, Y. Renardy, M. Renardy, R. S. Judith and T. St. Pierre*
- PO137.** Rheology and tribology in drilling fluid performance. *J. E. Maxey, G. Paroline and P. Kamerkar*
- PO138.** Viscoelastic properties of POSS-styrene nanocomposite blended with polystyrene. *M. E. Romero-Guzmán and A. Romo-Urbe*
- PO139.** Coalescence of polymeric drops in a polymeric matrix via head on collision in the presence of insoluble surfactants: Effect of surface diffusivity. *C. Vannozzi and G. Leal*
- PO140.** Varying blending protocol to realize high-dispersed phase immiscible polymer blends. *J. D. Martin and S. Velankar*
- PO141.** Viscoelasticity and crystallization of PC/mPP nanoblends prepared via in situ polymerization and compatibilization. *S. A. Madbouly and J. U. Otaigbe*
- PO142.** A theoretical analysis of the technique of micropipette aspiration for deformable particles. *A. Ramachandran and G. Leal*
- PO143.** Flow-induced breakup of attractive nanoemulsions. *T. G. Mason and J. N. Wilking*
- PO144.** Thermo-gelation of surface-modified polyethylene microgels from fragmentation and immiscible blends. *G. H. Ling and M. T. Shaw*
- PO145.** Highly entangled liquids under extensional flow. *M. Cromer, L. P. Cook and G. H. McKinley*
- PO146.** Rheological studies of a phase-separated thermoplastic/thermoset blend. *X. Luo and P. T. Mather*
- PO147.** Rheology and simultaneous imaging of colloid-stabilised emulsions. *J. Thijssen, R. Besseling, A. Schofield, P. Clegg and W. C. Poon*
- PO148.** Investigation on drop formation process by CaBER ‘hanging drop’ experiments. *J. M. Katona and F. Ruttens*
- PO149.** Three-dimensional numerical simulations of a rising bubble in a viscoelastic FENE-CR model fluid. *M. Ohta, O. Kei, Y. Yoshida and M. Sussman*
- PO150.** Ageing of casein micelles. *H. L. Tan and K. M. McGrath*
- PO151.** Shear-banding in concentrated emulsions. *H. L. Tan and K. M. McGrath*
- PO152.** A look behind the salt curve: An examination of thickening mechanisms in shampoo formulations. *K. W. Penfield*
- PO153.** Theoretical model of viscous friction inside steadily sheared foams and concentrated emulsions. *N. D. Denkov, S. Tcholakova, K. Golemanov, T. Hu and A. Lips*
- PO154.** Thermal, morphological and rheological properties of rigid polyurethane foams as thermal insulating materials. *J. M. Kim, M. S. Han, Y. H. Kim and W. N. Kim*
- PO155.** Localization of topological changes in two-dimensional foams. *A. Wyn*
- PO156.** Interacting free-falling obstacles in two-dimensional foam: Simulation and experiment. *I. T. Davies*

Granular Materials and Aging

- PO158. Modeling collective failure and stick-slip in granular systems. *A. Tordesillas*
PO159. A thermomechanical approach to multiscale modeling of granular media. *A. Tordesillas and M. Muthuswamy*
PO160. Granular chains. *X. Zhang and A. Shen*
PO161. Rheological properties of a granular impurity in the Couette flow. *F. Vega Reyes, V. Garzo and A. Santos*

Colloidal Gels and Glasses

- PO163. Flow-assisted assembly of multilayer colloidal crystal arrays through spin coating. *L. T. Shereda, R. G. Larson and M. J. Solomon*
PO164. Microstructure and mechanics of concentrated suspensions during in situ coagulation of particles directly observed by confocal microscopy. *L. J. Bonderer, A. R. Studart and L. J. Gauckler*
PO165. Avalanches of concentrated granular suspensions down an inclined plane. *N. Andreini, S. Wiedersheimer and C. Ancey*
PO166. A meta-stable van der Waals gel: Transitioning from weak to strong interaction energies in the same system. *R. C. Kramb and C. F. Zukoski*
PO167. Time-dependent viscoelastic shear modulus during gravitational collapse of colloidal gels. *M. L. Kilfoil and S. Kamp*
PO168. A phenomenological classification of colloidal glasses based on their yielding. *C. Christopoulou, A. LeGrand, G. Petekidis and D. Vlassopoulos*
PO169. Solid rheology: Comparisons of molecular glasses and colloidal glasses. *G. B. McKenna, T. Narita and F. Lequeux*

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- PO171. A comparative analysis of the mixing efficiency of different types of passive micro-mixers. *P. Marques, J. A. Covas, H. Águas and J. M. Maia*
PO172. Diffusive and convective mass transfer in two-phase microchannel flow: Non-equilibrium interfacial tension. *S. D. Hudson, J. A. Pathak and J. D. Martin*
PO173. Electrokinetic microflows in curved rectangular channel under Newtonian slip boundary conditions. *J. H. Yun, M.-S. Chun and H. W. Jung*
PO174. Generation of non-Newtonian droplets using microfluidic flow focusing device. *W. Bae, D.-E. Lee, C. Kim and M.-S. Chun*
PO175. The behavior of non-Newtonian drops in microfluidic channels: Shear thinning, yield stress and elastic effects. *J. S. Hong, E. Wong, E. Miller, D. Harvey, M. Davidson and J. J. Cooper-White*
PO176. Electrohydrodynamic generation and transport of a single or multiple droplets of aqueous two-phase system in microfluidic device. *Y. H. Choi, Y. S. Song and D. H. Kim*
PO177. Shear migration of suspensions in simple and chaotic microchannel flows. *C. Gao, B. Xu and J. F. Gilchrist*
PO178. Microfluidic emulsification and foods: Probing micro to macro lengthscales. *J. J. Cooper-White, M. Duxenneuner, P. Fischer and E. J. Windhab*
PO179. A novel microfluidic mixing element for viscoelastic fluids. *A. M. Afonso, M. A. Alves, R. J. Poole, P. J. Oliveira and F. T. Pinho*

Micro-Rheology

- PO181. Response function of a sphere in the two-fluid model with sliding boundary conditions. *H. C. Fu, T. R. Powers and V. Shenoy*

New Experimental Methods

- PO183. Fourier transformation analysis in capillary flow: A new option to detect flow instabilities (shark skin). *A. Goettfert and J. Sunder*
PO184. From sample changer to the robotic rheometer: Automation and high throughput screening in rotational rheometry. *M. Krenn and J. Laeuger*
PO185. Using rheo-optical methods to analyse the waxing of crude oil. *K. Oldoerp, F. Soergel, C. Kuechenmeister and J. P. Plog*
PO186. Innovations in rheometer controlled-rate control loop design: Ultra low angular speed control and new applications. *U. Schulz, P. Sierro and J. Nijman*
PO187. Extending the capabilities of the CaBER with highly sensitive force measurements. *C. O. Klein, I. Naue, M. Wilhelm, R. Brummer and J. Nijman*
PO188. Effect of temperature modulation during time-sweeps. *E. L. Zita and J.-P. Ibar*
PO189. Toward a carbon nanotube-based capillary rheometer. *N. R. Scruggs, J. Robertson, J. J. Kasianowicz and K. B. Migler*
PO190. Fully automated combinatorial exploration of rheological properties in multicomponent systems with a standard rotational rheometer. *M. J. Hudson, D. Meehan, R. J. Davey and S. M. Schroeder*
PO191. Development of a new opposed-nozzle fixture for measuring the extensional properties of low viscosity liquids. *J. Soulages, J. Hostettler and G. H. McKinley*
PO192. In-situ photorheology and electron spin resonance to assess polymer photoaging. *H. Askanian, S. Commereuc and V. Verney*
PO193. Ultrasound as a complementary tool to internal mixers for investigation of thermal mechanical degradation of PET. *Z. Sun, L. Zhao, J. Tatibouët and C.-K. Jen*
PO194. A real-time ultrasonic technique for viscosity measurement during polymer processing. *L. Zhao, Z. Sun and S. Guo*

Food Rheology

- PO196. Comparison of methods for analyzing fruit-filled yogurt rheology. *D. J. Moonay and N. H. Benoit*
PO197. Rheological behavior, granule size distribution and differential scanning calorimetry of cross-linked banana (*Musa paradisiaca*) starch. *M. C. Núñez-Santiago, A. J. Maristany-Cáceres, F. J. García-Suárez and A. Bello-Pérez*
PO198. Rheological study of batter dough for "Yorkshire pudding" production. *M. Migliori, D. Gabriele, N. Baldino, F. R. Lupi and B. de Cindio*
PO199. Olive oil based emulsions in frozen puff pastry production. *D. Gabriele, M. Migliori, F. R. Lupi and B. de Cindio*
PO200. Influence of fat content on chocolate rheology. *D. Gabriele, M. Migliori, N. Baldino and B. de Cindio*
PO201. Mechanical modeling of foods including fracture and simulation of food compression. *M. Morimoto, H. Mizunuma, M. Sonomura, K. Kohyama and H. Ogoshi*
PO202. Rheology of film-forming solutions prepared with modified banana starch and plasticizer. *Y. Flores Gómez, M. Sánchez-Rivera, C. Romero-Bastida, R. González-Soto, A. Bello-Pérez and J. Solorza-Feria*
PO203. Effect of frozen storage on the gel-forming ability of surimi treated by acid and alkaline solubilization. *L. Campo-Deaño and C. A. Tovar*
PO204. Rheological modification of reduced fat chocolate induced by the addition of limonene. *T.-A. L. Do, B. Wolf, J. Vieira, J. M. Hargreaves and J. R. Mitchell*
PO205. Utility of squeeze flow in food industry. *T.-A. Huang*

Rheology of Solids and Glasses

- PO207. Viscoelastic characterization of soft and rigid solids immersed in liquids. *M. Namani and A. Elmoumni*
PO208. Rheological properties of carbon nanotube fiber networks in ionic liquids. *Y. Korth and C. Friedrich*

- PO209.** The effect of water on the modification of bitumen with MDI-PEG prepolymer. *M. J. Martin-Alfonso, P. Partal, F. J. Navarro, M. Garcia-Morales and C. Gallegos*
- PO210.** Thermodynamic scaling of the dynamics in fragile glass-formers: Insight from computer simulations. *D. Coslovich and C. M. Roland*
- PO211.** Rheological properties of gels from pyrene based low molecular weight gelators. *K. T. Leivo and A. P. Hahma*
- PO213.** Experimental and numerical studies on mudstone's creep behavior during water injection and its effect on casing damage. *X. Huang*
- PO214.** Influence of hydrated lime on mechanical properties of bitumen binders. *A. Zupancic Valant*
- PO215.** UV curing analysis using AR rheometer. *T. Chen*
- PO216.** Extended creep recovery via oscillatory shear and bending beam rheometers. *I. B. Kazatchkov, J. Stastna and L. Zanzotto*
- PO217.** Large scale dynamics in a driven simple glass. *F. Varnik*
- PO218.** Non-affine deformations of inherent structure as signature of cooperativity in supercooled liquids. *E. Del Gado, P. Ilg, M. Kröger and H. C. Öttinger*
- PO219.** Kinetic toy model for crystal plasticity. *M. Hütter, M. Grmela and H. C. Öttinger*
- PO220.** The research on rheology mechanism of coal-rock containing gas. *W. Chen*
- General Rheology**
- PO222.** Experimental research on pyromagnetic effect of PVC sheet. *Y. Luo and J. Su*
- PO223.** Slump flows inside pipes: Numerical results and comparison with experiments. *S. Malekmohammadi, M. F. Naccache, I. A. Frigaard and D. M. Martinez*
- PO224.** Mechanical and optical measurement of planar elongation viscosity in two-dimensional opposing flow. *M. Kato, S. Nobuhara, Y. Tabuchi and T. Takahashi*
- PO225.** Contrasting behavior of sheared thermotropic polymers: Wholly aromatic versus segmented architecture. *A. Romo-Uribe and P. T. Mather*
- PO226.** In-situ Rheo-SAXS study on shear induced alignment of liquid crystal (8CB) in the smectic phase under LAOS. *K. Hyun, B. Struth, T. Meins and M. Wilhelm*
- PO227.** Molecular dynamics simulation of backflow generation in nematic liquid crystal between parallel plates. *A. Sunarso, Y. Mieda, T. Tsuji and S. Chono*
- PO228.** Phase behavior of varying spacer lengths of side-group liquid crystal polymers. *Z. Kurji and J. A. Kornfield*
- PO229.** Back-flow of nematic liquid crystals and its application to liquid crystalline microactuators. *S. Chono and T. Tsuji*
- PO230.** Experimental results on electrorheology of liquid crystalline polymer solutions. *S. Neves, C. R. Leal and M. T. V. Cidade*
- PO231.** Spatiotemporal orientational order dynamics in wormlike micelles en route to rheochaos. *R. Ganapathy, S. Majumdar and A. K. Sood*
- PO232.** Modelling of ER squeeze films: An experimental investigation. *H. Esmonde*
- PO233.** Teaching rheology using product design. *J. Vermant and C. Macosko*
- PO234.** Reverse Poiseuille flow: The numerical viscometer. *D. A. Fedosov, B. Caswell and G. E. Karniadakis*
- PO235.** Fluid-solid transition approach using continuum damage mechanics. *N. Challamel, C. Lanos and C. Casandjian*
- PO236.** Nanoplasmonic particle tracking method. *S. S. Lee and L. P. Lee*
- PO237.** Correlation between organic matter degradation and the rheological performance of waste activated sludge during anaerobic digestion. *E. S. Morel, J. A. Hernández-Hernandes, J. M. Méndez-Contreras and D. Cantú-Lozano*
- PO238.** Effect of humidity on a material's mechanical properties. *L. Waguespack and T. Chen*
- PO239.** The generalized power-law: A new viscosity model. *D. Rodrigue*
- PO240.** Numerical simulation of heat transfer enhancement in laminar flow of viscoelastic fluids through a rectangular channel. *N. B. Peres, A. M. Afonso, M. A. Alves and F. T. Pinho*
- PO241.** Abnormal viscosity behaviour of ionic liquid 1-n-butyl-3-methylimidazolium chloride. *A. Takada, K. Imaichi and Y. Takahashi*
- PO242.** The use of rheological and thermal measurements to characterize PVC formulations in which the variables include base resin, plasticizer, and their respective concentrations. *G. W. Kamykowski and K. N. Mohamed*
- PO243.** Rheological properties of vegetable oil-diesel fuel blends. *D. Q. Nguyen and Z. Franco*
- PO244.** Thermal and rheological behavior of CYPHOS® IL phosphonium liquids. *R. P. Bagwe, C. C. Rivera, D. J. Harris, A. Robertson, E. Kamenetzky and D. Nucciarone*
- PO245.** High shear-rate viscometry of low-viscosity lubricating oils. *D. M. Binding*
- PO246.** Development of EHD motor of water solution utilizing electrohydrodynamics. *H. Sugiyama, H. Ogura and Y. Otsubo*
- PO247.** Motion control of disc electrode by electrorheological fluids. *K. Tsuda, Y. Hirose, H. Ogura and Y. Otsubo*
- PO248.** Application of a variable order operator to constitutive modeling of linear viscoelastic behavior. *L. Ramirez and C. Coimbra*
- PO249.** Transient shear flow of model lithium lubricating greases. *M. Á. Delgado Canto, J. M. Franco Gómez, C. Valencia Barragán, E. Kuhn and C. Gallegos Montes*
- PO250.** Geometric interpretation of linear viscoelasticity and time-temperature superposition. *K. S. Cho, H. Yeo and H. C. Jeon*
- PO251.** Determination of discrete relaxation time spectrum by use of continuous wavelet transform. *K. S. Cho, J. W. Kim and H. Yeo*
- PO252.** Numerical simulation in steady flow of Newtonian and shear thickening fluids in pipes with circular cross-section. *F. J. Galindo-Rosales and F. J. Rubio-Hernández*
- PO253.** Emptying time of a tank filled up with explosive paste: Comparison between experimental measurements and predictions based on rheological characterization of the paste. *J.-P. Guillemin, O. Bonnefoy, N. Forichon, L. Brunet and G. Thomas*

Social Program and Events

Sunday, August 3	Registration	2:00 pm – 8:00 pm	<i>De Anza Foyer</i>
	Opening Reception	6:00 pm – 8:00 pm	<i>Serra Grand Ballroom I</i>
Monday, August 4	Opening Ceremonies	8:00 am – 8:20 am	<i>Serra Grand Ballroom I</i>
	Exhibits	8:00 am – 5:30 pm	<i>Serra II</i> (also location of coffee breaks)
	Strolling Dinner Reception	7:30 pm – 10:30pm	<i>Monterey Bay Aquarium</i>
	Bus service from the Portola and Marriott begins at 7:00 pm. The last bus departs from the Aquarium at approximately 10:45 pm. <i>Hosted by The Society of Rheology.</i>		
Tuesday, August 5	Exhibits	8:00 am – 5:30 pm	<i>Serra II</i> (also location of coffee breaks)
	Poster Session	6:00 pm – 9:00 pm	<i>Serra Grand Ballroom I</i>
	Poster Session Reception	7:00 pm – 9:30 pm	<i>De Anza Ballroom I</i>
<i>Hosted by TA Instruments.</i>			
Wednesday, August 6	Exhibits	8:00 am – noon	<i>Serra II</i> (also location of coffee breaks)
	Wed Afternoon Excursion	Times and venues vary, box lunch provided	
	Wed Night Beach Party	6:30 pm – 11:00 pm	<i>Pirate's Cove</i>
<i>Supported by TA Instruments.</i>			
Thursday, August 7	Exhibits	8:00 am – 2:30 pm	<i>Serra II</i> (also location of coffee breaks)
	SoR Business Meeting	5:45 pm – 7:00 pm	<i>De Anza Ballroom I</i>
	Thursday Reception	7:00 pm – 8:00 pm	<i>Serra Grand Ballroom II</i>
	<i>Wine supported by Anton Paar.</i>		
	Thursday Banquet	8:00 pm – 10:00 pm	<i>Serra Grand Ballroom I</i>
<i>Wine supported by Anton Paar.</i>			
Friday, August 8	Closing Reception/Lunch	1:00 pm – 3:00 pm	<i>Serra Grand Ballroom II</i>

Wednesday Afternoon Excursion

- Carmel Valley Wine Tour
- Steinbeck Country Wine Tour
- Big Sur Coastline Tour
- Monterey Marine Sanctuary Whale Watching Tour
- Kayak Tour
- Bike Tour
- Gofit at Poppy Hills

Accompanying Person Additional Excursions

- Scenic Highlights of Monterey Bay (*Monday 9 am – 1 pm*)
- Bike Tour (*Monday 2 pm – 5 pm*)
- Santa Cruz Beach Boardwalk (*Tuesday 9 am – 5 pm*)
- Carmel Walking Tour and Shopping (*Tuesday 10 am – 4 pm*)
- Kayak Tour (*Tuesday 2 pm – 5 pm*)
- Point Lobos Nature Walk (*Thursday 12 pm – 5 pm*)
- Bike and Kayak All Day Freestyle (*day and time your choice*)

Exhibitors

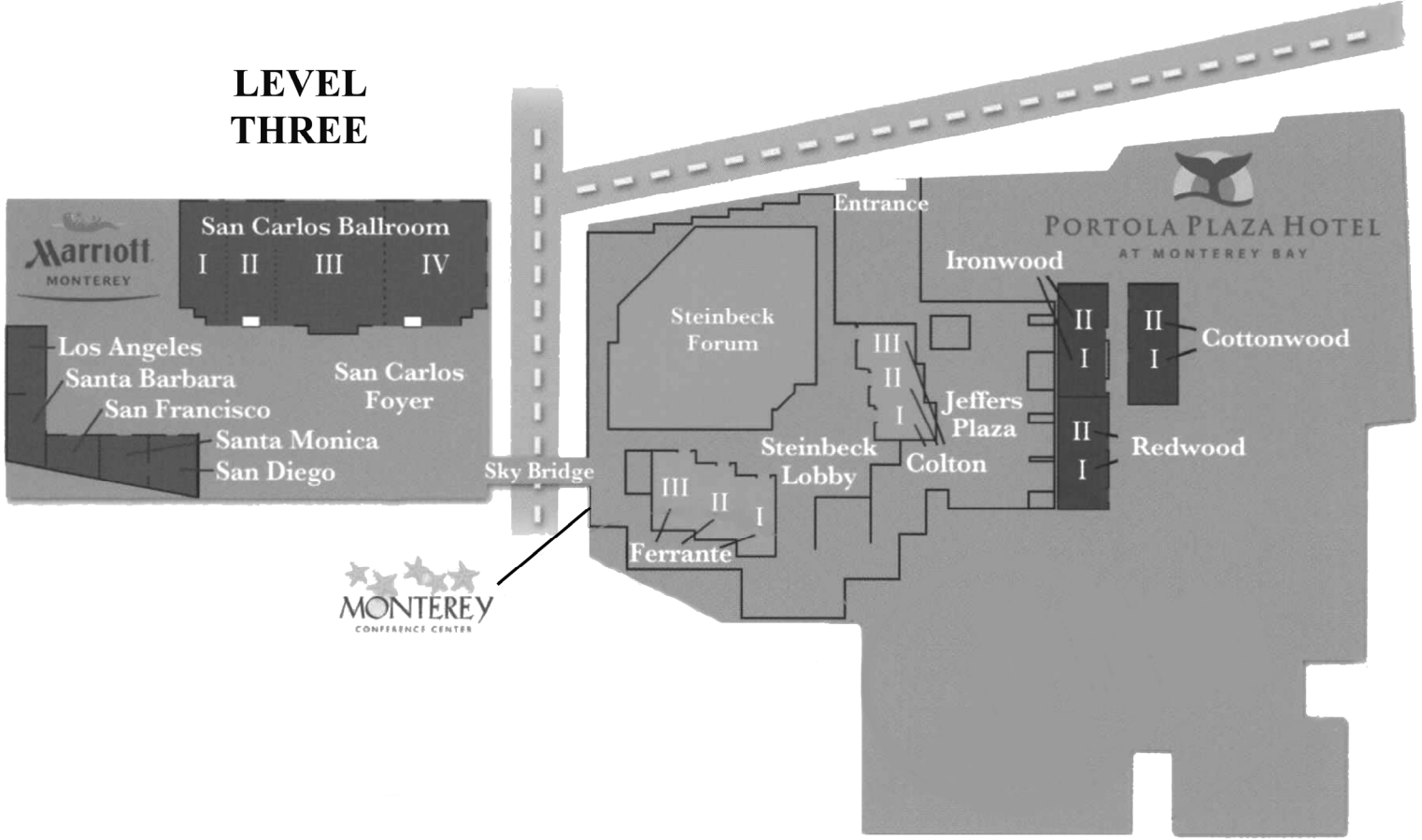
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Meeting Room Layout

LEVEL THREE



LEVEL ONE

